## **NACOmatic**

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NAME

17 DEC 2009 to 14 JAN 2010

### **ALTERNATE MINS**



INSTRUMENT APPROACH PROCEDURE CHARTS



### IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

ALBANY, OR ALBANY MUNI VOR/DME or GPS-A	BELLINGHA BELLINGHA
NA except for operators with approved weather reporting service.	NA when lo
ARLINGTON, WA  ARLINGTON MUNINDB or GPS Rwy 34  Category D, 800-2½.  NA when Paine Field control tower closed.	BIG PINEY MILEY MEM Category D
ASTORIA, OR ASTORIA RGNL	BILLINGS, BILLINGS L INTL
<sup>1</sup> NA when local weather not available. <sup>2</sup> Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3. <sup>3</sup> Category C, 800-2¼; Category D, 900-3.	<sup>1</sup> Category   <sup>2</sup> Categories   <sup>3</sup> Categories   900-3.
AURORA, OR  AURORA STATELOC Rwy 17 <sup>1</sup> RNAV (GPS) Rwy 17 <sup>23</sup> RNAV (GPS) Rwy 35 <sup>2</sup>	BOISE, ID BOISE AIR FIELD)
<sup>1</sup> Category D, 800-2½. <sup>2</sup> NA when local weather not available. <sup>3</sup> Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.	,
BAKER, MT	<sup>1</sup> Category <sup>2</sup> Category

ALTERNATE MINIMUMS

Categories A, B, 900-2%.	z, Category C, 900-272,
BAKER, MT	
BAKER MUNI	NDB Rwy 131
	NDB Rwy 31 <sup>2</sup>
<sup>1</sup> Categories A,B, 1100-	2; Categories C,D,
1100-3.	
<sup>2</sup> Categories A,B, 1000-	2; Category C, 1000-234;

## BAKER CITY, OR BAKER CITY MUNI ....... RNAV (GPS) Rwy 13<sup>12</sup> VOR-A<sup>13</sup>

VOR/DME Rwy 13<sup>24</sup>

<sup>1</sup>NA when local weather not available. <sup>2</sup>Category D. 900-2<sup>3</sup>/<sub>4</sub>.

Category D, 1000-3.

<sup>3</sup>Categories A,B, 1900-2; Categories C,D,

1900-3. 
<sup>4</sup>NA when control zone not in effect.

NAME ALTERNATE MINIMUMS
BELLINGHAM, WA
BELLINGHAM INTL ..............ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD ....... VOR Rwy 31
Category D, 800-21/4.

BILLINGS, MT

BILLINGS LOGAN

INTL ......NDB Rwy 10L<sup>1</sup>

RNAV (GPS) Rwy 10L<sup>2</sup>

RNAV (GPS) Rwy 28R<sup>3</sup>

<sup>1</sup>Category D, 800-2½. <sup>2</sup>Categories A,B,C,D, 800-2½. <sup>3</sup>Categories A,B, 900-2; Categories C,D, 900-3.

ROISE	., ID
BOISE	AIR TERMINAL(GOWEN
FIELD'	) LOC BC Rwy 28L1

RNAV (GPS) Y Rwy 10R<sup>2</sup> RNAV (GPS) Y Rwy 28L<sup>2</sup> VOR/DME or TACAN Rwy 10L<sup>1</sup> VOR/DME or TACAN Rwy 28L<sup>1</sup>

<sup>1</sup>Category E, 900-3. <sup>2</sup>Category E, 1000-3.

### BOZEMAN, MT

GALLATIN FIELD .......VOR Rwy 12 Category C, 800-21/4; Category D, 800-21/2.

#### BREMERTON, WA

BREMERTON NATIONAL .. RNAV (GPS) Rwy 1 RNAV (GPS) Rwy 191

NA when local weather not available. 
¹Categories A,B, 1200-2; Categories C,D, 1200-3.





ALTERNATE MINS	
NAME ALTERNATE MINIMUMS BUFFALO, WY	NAME ALTERNATE MINIMUMS CHEYENNE, WY
JOHNSON COUNTY RNAV (GPS) Rwy 311	CHEYENNE RGNL/JERRY OLSON
VOR/DMÉ Rwy 31 <sup>2</sup>	FIELDILS or LOC Rwy 271
NA when local weather not available.	NDB Rwy 27 <sup>1</sup>
<sup>1</sup> Category D, 800-21/4.	RNAV (GPS) Rwy 9 <sup>2</sup>
<sup>2</sup> Category C, 800-21/4; Category D, 800-21/2.	RNAV (GPS) Rwy 13 <sup>2</sup>
BUDIEV ID	RNAV (GPS) Rwy 31 <sup>2</sup>
BURLEY, ID BURLEY MUNIVOR-A	<sup>1</sup> NA when control tower closed. <sup>2</sup> NA when local weather not available.
VOR/DME-B	TVA WHEIT local weather flot available.
NA when local weather not received.	CODY, WY
THE WHOLL ISSUE WOULDS THE TOO STOOL	YELLOWSTONE
BURLINGTON/MOUNT VERNON, WA	REGIONAL RNAV (GPS) Rwy 221
SKAGIT RGNL NDB Rwy 101	VOR or GPS-A <sup>2</sup>
RNAV (GPS) Rwy 10	<sup>1</sup> Category C, 800-2¼; Category D, 200-2¾.
RNAV (GPS) Rwy 28	<sup>2</sup> Category D, 900-3.
NA when local weather not available.	COEUR DIALENE IR
¹Categories A,B, 1300-2; Categories C,D,	COEUR D'ALENE, ID
1300-3.	COEUR D'ALENE-PAPPY BOYINGTON FIELD ILS or LOC/DME Rwy 5
BURNS, OR	NDB Rwy 5
BURNS MUNIVOR Rwy 30	RNAV (GPS) Rwy 5
Categories A, B, 1400-2; Categories C,D,	VOR Rwy 5
1400-3.	VOR/DME Rwy 1
	NA when local weather not available.
BUTTE, MT	
BERT MOONEY ILS Y Rwy 151	CORVALLIS, OR
LOC/DME Rwy 15 <sup>2</sup>	CORVALLIS MUNIVOR-A
RNAV (GPS) Y Rwy 153	Categories A,B,1200-2; Categories C,D,
RNAV (GPS) Z Rwy 15,1200-2 VOR or GPS-B,1400-3	1200-3.
VOR/DME or GPS-A,3000-3	DEER PARK, WA
<sup>1</sup> Categories A, B, C, 1200-4.	DEER PARK RNAV (GPS) Rwy 34
<sup>2</sup> Categories A.B., 1300-2; Categories C.D.	NA when local weather not available.
1300-3.	TV WHOTH TOOL WOULD HOT AVAILABIO.
<sup>3</sup> Categories A,B, 1500-2; Categories C,D,	DILLON, MT
1500-3.	DILLON VOR or GPS-A,1500-3
	VOR/DME or GPS-B
CALDWELL, ID	NA when Dillon altimeter setting not available.
CALDWELL	DOUGLAG MAY
INDUSTRIAL RNAV (GPS) Rwy 12	DOUGLAS, WY
RNAV (GPS) Rwy 30  NA when local weather not available.	CONVERSE COUNTY
NA when local weather not available.	1100-3. DME standard.
CASPER, WY	1100-3. DIVIL Standard.
CASPER/NATRONA	EASTSOUND, WA
COUNTY INTLILS or LOC Rwy 3	ORCAS ISLAND RNAV (GPS)-A
ILS, Categories A,B, 800-2; Category C 800-	Categories A, B, 1100-2.
2½; Category D, 800-2¾; Category E, 900-3.	NA when local weather not available.
LOC Catagory C 800 31/2 Catagory D 800	

LOC, Category C, 800-21/2; Category D, 800-

23/4; Category E, 900-3.

**ELLENSBURG, WA** BOWERS FIELD ..... RNAV (GPS) Rwy 251

RNAV (GPS) Rwy 29 VOR-B<sup>2</sup>

NA when local weather not available. <sup>1</sup>Category D, 800-21/4.

<sup>2</sup>Category A, 1500-2.



<sup>5</sup>Category C, 800-21/4; Category D, 1000-3.

GLASGOW INTL ......VOR Rwy 12 Categories A,B, 900-2; Categories C,D, 900-3.

GLASGOW, MT WOKAL FIELD/

VOR/DME standard.



ALIERNATE WINS	4
NAME ALTERNATE MINIMUMS  EPHRATA, WA  EPHRATA MUNIRNAV (GPS) Rwy 3  RNAV (GPS) Rwy 21  VOR/DME Rwy 3  VOR Rwy 21  NA when local weather not available.	NAME ALTERNATE MINIMUMS  GLENDIVE, MT  DAWSON COMMUNITY NDB or GPS Rwy 12,900-2¾  GOODING, ID GOODING MUNI
Category D, 1300-3.	RNAV (GPS) Rwy 25  NA when local weather not available.
EUGENE, OR  MAHLON-SWEET FIELDILS or LOC/DME Z Rwy 16R¹ ILS or LOC Y Rwy 16R¹ ILS or LOC/DME Rwy 16L¹² RNAV (GPS) Rwy 3AR² VOR or GPS-A³ ¹NA when control tower closed. ²NA when local weather not available. ³Categories A,B, 900-2; Category C, 900-2½; Category D, 900-2¾.	GRAY AAF (KGRF) FORT LEWIS, WA
EVANSTON, WY EVANSTON-UINTA COUNTY BURNS FIELDILS or LOC/DME Rwy 23 Categories C,D, 700-2.	GREYBULL, WY SOUTH BIG HORN COUNTY RNAV (GPS)-A RNAV (GPS) Rwy 33¹ NA when local weather not available. ¹Category D, 1200-3.
EVERETT, WA  SNOHOMISH COUNTY(PAINE FIELD)	HAILEY, ID FRIEDMAN MEMORIALRNAV (GPS) W Rwy 31 Categories A,B, 1900-2; Category C, 1900-3.
FORT BENTON, MT FORT BENTON	HAVRE, MT HAVRE CITY-COUNTYVOR Rwy 26 Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.
GILLETTE, WY GILLETTE-CAMPBELL COUNTY	

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### **ALTERNATE MINS**



#### NAME ALTERNATE MINIMUMS

HELENA, MT

HELENA RGNL ..... ILS or LOC Y Rwy 2712 ILS or LOC Z Rwv 2712

LOC/DME BC-C13

NDB-D14 RNAV (GPS) Y Rwy 95 RNAV (GPS) Rwy 236 RNAV (GPS) X Rwy 275

RNAV (RNP) Z Rwv 97 RNAV (RNP) Y Rwy 277 RNAV (RNP) Z Rwy 2779

VOR-A8 VOR/DME-B6 <sup>1</sup>NA when control tower closed.

<sup>2</sup>Categories A, B, 1600-2; Categories C, D, E, 1600-3. 3Categories A, B, 1300-2; Categories C, D,

1300-3. 4Category A, 1200-2. <sup>5</sup>Categories A, B, 1600-2; Categories C, D, 1600-3.

<sup>6</sup>Categories A, B, 900-2; Category C, 900-23/4; Category D, 900-3.

<sup>7</sup>NA when local weather not available. <sup>8</sup>Categories A, B, 2900-2; Categories C, D,

2900-3. 91000-4.

HOQUIAM, WA BOWERMAN ..... RNAV (GPS) Rwy 241

VOR/DME Rwy 242 VOR Rwy 61 <sup>1</sup>Category D, 800-21/4.

Category D, 900-3. **IDAHO FALLS. ID** 

IDAHO FALLS RGNL ...... ILS or LOC Rwy 201 LOC BC Rwy 22 RNAV (GPS) Rwy 203

VOR Rwy 20<sup>3</sup> <sup>1</sup>ILS, Category E, 700-21/2. LOC, Category E, 800-21/2

<sup>2</sup>Categories A,B, 900-2; Category C, 900-2<sup>3</sup>/<sub>4</sub>;

<sup>2</sup>Category E, 800-2½. <sup>3</sup>NA when local weather not available.

#### JACKSON, WY JACKSON HOLE ..... RNAV (GPS) X Rwy 11

1200-3.

1400-3.

RNAV (GPS) Y Rwy 191 RNAV (RNP) Y Rwy 1, 10681200-4

VOR/DME Rwy 12

VOR/DME Rwv 193 <sup>1</sup>Categories A,B, 1200-2; Categories C,D,

<sup>2</sup>Categories A,B,1000-2; Categories C,D, <sup>3</sup>Categories A,B,1400-2; Categories C,D,

NAME ALTERNATE MINIMUMS JEROME, ID

JEROME COUNTY ..... RNAV (GPS) Rwy 9 RNAV (GPS) Rwv 271

VOR/DME-A NA when local weather not available.

RNAV (RNP) Y Rwy 22

<sup>1</sup>Categories A, B, 1300-2; Categories C, D, 1300-3.

JOHN DAY, OR GRANT COUNTY RGNL/

OGILVIE FIELD ..... RNAV (GPS) Y Rwy 9

Category B, 900-2; Category C, 900-21/2.

KALISPELL, MT

GLACIER PARK INTL ..... ILS or LOC Rwy 21

RNAV (RNP) Rwy 20, 800-21/22

<sup>1</sup>Categories C, D, 700-2. <sup>2</sup>NA when local weather not available.

KLAMATH FALLS. OR

KLAMATH FALLS .....ILS or LOC Rwy 321

RNAV (GPS) Rwy 142 VOR/DME or TACAN Rwy 143 VOR/DME or TACAN Rwy 324 VOR or GPS-B,2100-3

<sup>1</sup>Categories A,B, 900-2; Category C, 900-23/4; Category D, 1000-3. LOC, DME required. <sup>2</sup>Categories A,B, 900-2; Category C, 900-2<sup>3</sup>/<sub>4</sub>; Category D, 1000-3.

3Categories C,D, 1000-3; Category E, NA. <sup>4</sup>Category B, 900-2; Categories C,D, 1000-3; Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY ...... VOR/DME-A

Categories A.B. 900-2: Category C. 900-21/2:

Category D, 900-234.

LEWISTON. ID

LEWISTON-NEZ PERCE COUNTY ......ILS Rwy 2612

RNAV (GPS) Rwy 83 RNAV (GPS) Rwy 123 RNAV (GPS) Rwy 263 VOR Rwy 84 VOR Rwv 263

<sup>1</sup>ILS, Category D, 800-21/4. <sup>2</sup>NA when control tower closed. 3Category D, 800-21/4.

<sup>4</sup>Categories A, B, 1100-2; Categories C, D, 1100-3.

LEWISTOWN, MT

LEWISTOWN MUNI ..... RNAV (GPS) Rwy 7 VOR Rwy 7

Category D, 800-21/4.

NAME

## **ALTERNATE MINS**

NAME ALTERNATE MINIMUMS LIVINGSTON. MT MISSION FIELD ...... VOR/DME-B1

VOR-A<sup>2</sup> <sup>1</sup>Categories A, B, 900-2; Category C, 900-21/2; Category D, 1000-3.

<sup>2</sup>Categories A, B, 2200-2; Categories C,D, 2200-3.

MC MINNVILE, OR

MC MINNVILLE MUNI ...... ILS or LOC Rwy 22

RNAV (GPS) Rwy 4 RNAV (GPS) Rwy 22 VOR/DME-B

NA when local weather not available. Category D 800-21/4.

MEDFORD, OR

ROGUE VALLEY INTL-

MEDFORD ..... ILS or LOC/DME Rwv 1412

RNAV (GPS) Rwy 144 VOR-A5 VOR/DME-C3 VOR/DME Rwy 145

LOC/DME BC-B<sup>23</sup> RNAV (GPS)-D3

<sup>1</sup>ILS, Categories A, B, C, 700-2; Category D, 900-21/2. LOC, Category D, 900-21/2. <sup>2</sup>NA when control tower closed

3Categories A, B, 2300-2; Categories C, D,

<sup>4</sup>Categories A, B, 1100-2; Categories C, D,

5Categories A, B, 1400-2; Category C, D

MISSOULA, MT MISSOULA INTL ......ILS Rwy 111

1400-3.

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RNAV (GPS) Y Rwy 1123 RNAV (RNP) Z Rwy 112,800-21/2 VOR/DME or GPS-A,2000-3 VOR/DME or GPS-B,2000-3

<sup>1</sup>ILS. 1600-6. LOC.NA. <sup>2</sup>NA when local weather not available.

3Categories A, B, 1900-2; Categories C, D,

1900-3.

MOSES LAKE, WA

GRANT COUNTY INTL ... ILS or LOC Rwy 32R1

NDB Rwy 32R<sup>2</sup> RNAV (GPS) Rwy 41 RNAV (GPS) Rwy 14L1

RNAV (GPS) Rwy 221 VOR Rwy 4<sup>2</sup> VOR -1 Rwy 14L<sup>2</sup> VOR -3 Rwy 14L<sup>2</sup>

VOR Rwy 22<sup>2</sup>

**NEWCASTLE. WY** 

MONDELL FIELD ...... VOR or GPS Rwy 31 NA except for operators with approved weather reporting service. Categories A,B, 900-2; Categories C,D, 900-3.

ALTERNATE MINIMUMS

VOR or GPS-A<sup>3</sup>

VOR-A<sup>23</sup>

NORTH BEND, OR

SOUTHWEST OREGON

RGNL .....ILS or LOC Rwy 41

NDB or GPS Rwy 42 VOR/DME or GPS-B4

VOR/DME Rwy 44 <sup>1</sup>ILS, Categories A,B, 800-2; Category C, 900-21/4, Category D,1000-3. LOC, Category C, 900-21/4, Category D,1000-3. <sup>2</sup>Category C, 900-21/4; Category D, 1000-3.

3Categories A,B, 1100-2; Categories C,D, <sup>4</sup>Categories C,D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG ..... RNAV (GPS) Rwy 7

NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL ..... ILS or LOC Rwy 1712 RNAV (GPS) Rwy 172 RNAV (GPS) Rwy 352

VOR/DME Rwy 35<sup>2</sup> <sup>1</sup>ILS, Categories C, D, 700-2.

<sup>2</sup>NA when local weather not available. 3Category D, 800-21/4.

ONTARIO, OR

ONTARIO MUNI ..... RNAV (GPS) Rwy 14 RNAV (GPS) Rwy 32 NA when local weather not available.

PASCO, WA

TRI-CITIES .....ILS or LOC Rwy 21R12

RNAV (GPS) Rwy 3L RNAV (GPS) Rwy 12 RNAV (GPS) Rwy 21R

> VOR Rwy 21R3 VOR/DME Rwy 30

RNAV (GPS) Rwy 30

NA when local weather not available. <sup>1</sup>NA when control tower closed.

<sup>2</sup>ILS, Categories A,B,C, 700-2; Category D, 700-21/4. LOC, Category D, 800-21/4. 3Category D, 800-21/4.

VOR Rwy 32R<sup>2</sup> <sup>1</sup>NA when local weather not available.



#### ALTERNATE MINS



VOR-A 9

NAME ALTERNATE MINIMUMS
PENDLETON, OR

EASTERN OREGON RGNL AT
PENDLETON ............. ILS or LOC/DME Rwy 25¹
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 25
RNAV (GPS) Rwy 25
RNAV (GPS) Rwy 29
VOR Rwy 7
NA when local weather not available.

NA when local weather not available. ¹ILS, NA when control tower closed.

#### PINEDALE, WY

PINEDALE/RALPH WENZ
FIELD ......NDB-A¹
RNAV (GPS) Rwy 11²
RNAV (GPS) Rwy 29²

NA when local weather not available. 
¹Category C, 800-2½; Category D, 800-2½. 
²Category D, 800-2½.

### POCATELLO. ID

POCATELLO RGNL......ILS or LOC Rwy 211 RNAV (GPS) Rwy 32 RNAV (GPS) Rwy 212

<sup>1</sup>NA when control zone not in effect.

<sup>2</sup>NA when local weather not available.

#### PORT ANGELES, WA

WILLIAM R
FAIRCHILD INTL ......ILS or LOC Rwy 8

RNAV (GPS) Rwy 81 RNAV (GPS) Rwy 26

NA when local weather not available.

<sup>1</sup>Categories A, B, 1000-2; Categories C, D, 1000-3.

VOR Rwy 28R<sup>5</sup>

ILS, Category A, 700-2; Categories B,C, 8002; Category D, 1000-3. LOC, Category D, 1000-3.

<sup>2</sup>Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.

<sup>3</sup>ILS, Category A, 700-2; Categories B,C, 800-

2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.

<sup>4</sup>ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3.

LOC, Category D, 1000-3.

<sup>5</sup>Category D, 1000-3.

<sup>6</sup>Categories A,B,C 800-5; Category D, 1000-5. <sup>7</sup>NA when local weather not available.

<sup>8</sup>Category D, 1000-3.

<sup>9</sup>Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

#### PORTLAND-HILLSBORO .. ILS or LOC Rwy 12<sup>1</sup> RNAV (GPS) Rwy 12<sup>2</sup>

<sup>1</sup>Categories A,B, 1000-2;Category C, 1000-2<sup>3</sup>/<sub>4</sub>; Category D, 1000-3.

<sup>2</sup>NA when local weather not available.

PORTLAND-TROUTDALE ....... NDB or GPS-A Categories A,B, 1100-2; Category C, 1100-3; Category D, 1300-3.

#### PULLMAN/MOSCOW, WA

PULLMAN/MOSCOW MUNI ...... RNAV (GPS) Rwy 5,800-21/4

#### RAWLINS, WY

RAWLINS MUNI/

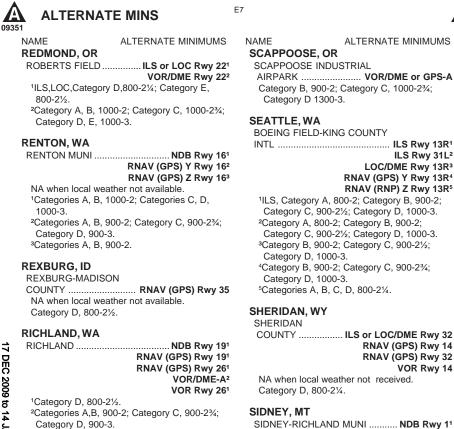
HARVEY FIELD ...... NDB or GPS-A<sup>1</sup> VOR or GPS Rwy 22,1000-3<sup>2</sup>

<sup>1</sup>Category D, 1000-3.

Category D, 1000-5.

<sup>2</sup>NA when Rawlins FSS closed.





#### **ROCK SPRINGS, WY**

**ROCK SPRINGS SWEETWATER** COUNTY ...... VOR-B Category D, 800-21/4.

#### ROSEBURG, OR ROSEBURG RGNL.....RNAV (GPS)-B

NA when local weather not available. Categories A, B, 1200-2; Category C, 1200-3; Category D, 1400-3.

#### SALEM, OR

MCNARY FIELD ..... ILS or LOC Rwy 3112 LOC/DME Rwy 313 RNAV (GPS) Rwy 3113

<sup>1</sup>NA when local weather not available. <sup>2</sup>ILS, Categories A, B, 800-2; Category C, 800-21/4; Category D, 800-21/2. LOC, Category C, 800-21/4; Category D, 800-21/2.

3Category D, 800-21/2.

COUNTY ...... ILS or LOC/DME Rwy 32 RNAV (GPS) Rwy 14 RNAV (GPS) Rwy 32

NDB Rwy 19<sup>2</sup> <sup>1</sup>Category D, 800-21/4.

<sup>2</sup>Categories C,D, 800-2½.

#### SPOKANE, WA

FELTS FIELD ..... ILS/DME Rwy 21R1 RNAV (GPS)-A2 RNAV (GPS) Rwy 3L<sup>2</sup>

VOR Rwy 3L3

<sup>1</sup>Categories A,B, 1000-2;Category C, 1000-

<sup>2</sup>Categories A,B, 1000-2; Category C, 1000-234; Category D, 1000-3.

3Categories A,B, 1000-2; Categories C.D. 1000-3

SPOKANE INTL .....ILS or LOC Rwy 31 ILS or LOC/DME Rwy 211 VOR Rwv 3<sup>2</sup>

<sup>1</sup>ILS, Category D, 700-2. <sup>2</sup>Category E, 800-21/2.





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NAME	ALTERNATE MINIMUMS	NAME	ALTERNATE	MINIMUMS	
TACOMA, WA  TACOMA NARROWSILS Rwy 17 <sup>1</sup> NDB Rwy 35 <sup>1</sup> RNAV (GPS) Rwy 17 <sup>12</sup> RNAV (GPS) Rwy 35 <sup>23</sup>		WENATCHE PANGBORN MEMORIAL .		' Rwy 12, 1300 VOR/DME-0 VOR/DME-	
<sup>1</sup> NA when control <sup>2</sup> Category D, 800- <sup>3</sup> NA when local we		<sup>1</sup> NA when local weather not available. <sup>2</sup> Categories A, B, 1500-2; Categories C, D, 1500-3.			
THE DALLES, OF COLUMBIA GEOR	GE RGNL/	<sup>3</sup> Categories A, B, 2000-2; Categories C, D, 2000-3.			
	II RNAV (GPS)-A 100-2; Category C, 1100-3; -3.	WOLF POINT, MT L.M. CLAYTON RNAV (GPS) Rwy RNAV (GPS) Rwy			
NA when local we ¹ILS, Category D, LOC, Category E	ILS or LOC Rwy 25¹ NDB Rwy 25 RNAV (GPS) Rwy 7 RNAV (GPS) Rwy 7 VOR Rwy 7² ather not available. 700-2; Category E, 900-3.	WORLAND, WORLAND N Categories O YAKIMA, WA YAKIMA AIR	MUNI	≀ or GPS Rwy	
	MA  GNLILS or LOC Rwy 20¹  NDB Rwy 20, 1000-3  RNAV (GPS) Rwy 2²²  RNAV (GPS) Rwy 16²  RNAV (GPS) Rwy 20²  VOR/DME Rwy 2²  ries A,B, 1100-2; Categories	<sup>2</sup> ILS, Catego 700-2¼; Category Category Category D	NAV VOR/DME or control tower closed ories A, B, 600-21/4, 700-2; Category	(GPS) Z Rwy 2 TACAN Rwy 2 VOR-7 I. ; Category C, D, 800-21/4	

C, D, 1100-3.

<sup>2</sup>Category D, 800-21/2.

<sup>3</sup>NA when local weather not available.

0-4 -C12 -**A**3

16

<sup>5</sup>Category C, 800-21/2; Category D, 800-23/4.

<sup>6</sup>Categories A, B, 1100-2; Categories C, D, 1100-3.

<sup>7</sup>Category C, 800-21/4; Category D, 800-21/2.



#### INSTRUMENT APPROACH PROCEDURE CHARTS IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are

minimum altitudes in MSI DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures

(ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance

capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance

and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military takeoff minima, refer to appropriate service directives.

NAME

TAKE-OFF MINIMUMS TAKE-OFF MINIMUMS NAME

AFTON, WY AFTON MUNI

DEPARTURE PROCEDURE: Rwv 16. Use LUNDI DEPARTURE. Rwy 34, use AFTON DEPARTURE.

ALBANY, OR

#### ALBANY MUNI

DEPARTURE PROCEDURE: Rwv 16, turn right. Rwv 34, turn left, All aircraft climb direct CVO VOR/ DME and continue climb in CVO VOR/DME holding pattern. (E. right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

#### ANACONDA, MT

**BOWMAN FIELD** 

TAKE-OFF MINIMUMS: Rwv 4, std. w/min, climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. Rwy 16, std. w/min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions, Rwv 22, NAobstacles. Rwy 34, std. w/min. climb of 369' per NM to

9100, or 2800-3 for climb in visual conditions. DEPARTURE PROCEDURE: Rwys 4, 34, climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual

conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME. continue climb-in-hold to 10200 (north, left turn, 166° inbound).

### BOWMAN FIELD(CON'T)

Rwv 16. climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue

Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north. leftturn, 166° inbound). NOTE: Rwy 16, multiple trees beginning 865' from departure end of runway, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from departure end of runway, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from departure end of runway, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from departure end of runway, 1664' right of centerline, 80' AGL/5159'MSL. Rwy 34, multiple transmission lines beginning 2242' from departure end of runway, 964' left of centerline, up to 80' AGL/5159' MSL.

climb-in-hold to 10200 (north, left turn, 166° inbound), or

for climb in visual conditions, cross Bowman Field

#### ARCO, ID

ARCO-BUTTE COUNTY (AOC) AMDT 1 08157 (FAA) TAKE-OFF MINIMUMS: Rwy 6, NA - Obstacles. DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

9351



#### ARLINGTON, WA ARI INGTON MUNI

TAKE-OFF MINIMUMS: Rwv 11, 600-2 or std. with a

min\_climb of 350' per NM to 700\_Rwv 34, 500-2 or std. with a min\_climb of 260' per NM to 700 DEPARTURE PROCEDURE: Rwv 11. turn right

Rwv 16. climb direct to WATON LOM, Rwvs 29.34. turn left All aircraft climb direct to WATON I OM Aircraft bearings 260° CW 340° from WATON LOM continue climb on course, Aircraft departing WATON LOM on

departing WATON LOMon bearings 150° CW 200° and bearings 340° CW 150° from WATON LOM climb in holding pattern (S. left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S. left turns, 339° inbound) to 1500 then continue climb on course.

#### ASTORIA, OR ASTORIA RGNL

TAKE-OFF MINIMUMS: Rwv 8, 800-3 or std, with a min.

climb of 320' per NM to 900. Rwy 13, 700-2 or std. with a min\_climb of 350' per NM to 800 DEPARTURE PROCEDURE: Rwvs 8.31, turn left.

Rwv 13, climb runway heading to 800 then climbing right turn Rwy 26 turn right. Aircraft departing northwestbound climb via AST R-290 on course. All other aircraft climb to 1500 or above via ASTR-290 then left turn to AST VOR/DME and continue climbing

#### AUBURN. WA AUBURN MUNI

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE

#### AURORA. OR

**AURORA STATE** 

DEPARTURE PROCEDURE: Rwv 17. turn right. thence... Rwv 35. turn left, thence...

... Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: Rwv 17, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL. Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL, Rwv 35, multiple trees

and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL. Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

### BAKER, MT

BAKER MUNI

NOTE: Rwy 13,51' derrick 2200' from departure end of

runway on centerline, 100' trees south of airport, near runway, various locations. Rwy 31, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline, 114' rod on OL antenna 3800' from departure end of runway on centerline.

### BAKER CITY MUNI

Rwv 13, 1400-2 or std. with a min. climb of 310' per NM

**BELLINGHAM. WA** 

**BELLINGHAMINTI** 

direction of flight.

MSL.

BEND.OR

BEND MUNI (BDN)

DEPARTURE.

MILEY MEMORIAL FIELD

**BIG PINEY. WY** 

AMDT 4 09183 (FAA)

1050' per min. at 200K, 1313' per min. at 250K).

climb of 315' per NM to 6000, (788' per min, at 150K.

TAKE-OFF MINIMUMS: Rwv 8, 900-2 or std, with a min.

**BAKER CITY.OR** 

to 6000 (775) permin at 150K 1033 permin at 200K

std, with a min, climb of 240' per NM to 6000 (600' per

min at 150K 800' permin at 200K 1000' permin at

250K). Rwv 35. CAT C.D 1000-2; or std. with a min.

climb of 240' per NM to 6000 (600' per min, at 150K.

Rwys 26.31.35, turn right All aircraft climb direct BKE

(SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

800' permin, at 200K, 1000' permin, at 250K).

DEPARTURE PROCEDURE: Rwvs 8.13, turn left.

VOR/DME, Continue climb in BKE holding pattern

DEPARTURE PROCEDURE: Rwv 16, climb heading

VORTAC. Do not exceed 210 KIAS until established

northbound, Rwy 34, climb heading 340° to 600, then

VORTAC, continue climb in holding pattern (northwest.

NOTE: Rwv 16, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

climbing left turn to intercept HUH R-145 to HUH

right turn, 149° inbound) to MEA as appropriate for

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of

Rwv 34. lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL.

multiple trees beginning 1372' from departure end of

runway, 619' right of centerline, up to 134' AGL/246'

DEPARTURE PROCEDURE: Use BEND

TAKE-OFF MINIMUMS: Rwys 8,26, NA.

thence all aircraft climb on course.

DEPARTURE PROCEDURE: Rwy 13, climb to 8400 via

BPI R-124. Rwv 31. climb to 10800 via BPI R-320

runway, 57' left of centerline, up to 104' AGL/249' MSL.

160° to 600, then climbing right turn direct HUH

1292' per min. at 250K), Rwy 17, NA, Rwy 31, 1300-2 or



#### BILLINGS, MT BILLINGS LOGAN INTL (BIL)

AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: Rwv 10R, NA-Obstacles

DEPARTURE PROCEDURE: Rwv 10L, Climb heading 098° to 4600 before turning right NOTE: Rwv 10L. fence 466' from departure end of

runway, 535' right of centerline, 11' AGL/3511' MSL. cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL. ground beginning 21' from departure end of runway, 499'

right of centerline, 0' AGL/3505' MSL, Rwy 25, airport security fence, abeam departure end of runway, 500' left of centerline 11'AGL/3672'MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/

### BLACKFOOT.ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: Rwy 1, climb to 7000 (or higher assigned altitude) direct IDA VOR/DMF before proceeding on course. Rwy 19, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

#### **BOISE ID**

BOISE AIR TERMINAL (GOWEN FIFLD)

DEPARTURE PROCEDURE: Rwvs 28L.28R, turn left Rwys 10L,10R, turn right. Climb on BOI R-214 within 20 NM to cross BOLVORTAC at or above MEA/MCA for direction of flight

#### **BOZEMAN.MT**

GALLATIN FIFLD (BZN)

AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: Rwvs 3, 21, NA-ATC. DEPARTURE PROCEDURE: Rwvs 12.30. use BOZEMAN DEPARTURE.

#### **BREMERTON.WA**

BREMERTON NATIONAL (PWT)

AMDT 3 08045 (FAA) TAKE-OFF MINIMUMS: Rwy 1, 300-1 or std. w/min.

climb of 410' per NM to 700. DEPARTURE PROCEDURE: Rwv 1. Climbing right turn to 6000 direct CAN NDB, Thence...Rwy 19, Climb

to 6000 direct CAN NDB, thence... ...Continue climb-in-hold (S, LT, 013° inbound) to 6000

before proceeding on course. NOTES: Rwv 1. Multiple bushes 380' from departure end

of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. Rwy 19, Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

#### **BUFFALOWY** IOHNSON COLINTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13.31, 2400-2 or std, with a min, climb of 300' per

NM to 7500. Southhound aircraft: Rwv 31, 400-2 or std. with a min climb of 300' per NM to 6000

DEPARTURE PROCEDURE: Northbound aircraft: Rwv 13. turn left, Rwv 31. climb straight ahead.

All aircraft proceed via SHR R-139 to SHR VORTAC

Southbound aircraft: Rwv 13, climb straight ahead. Rwv 31. turn right. All aircraft proceed via CZI R-319 to

CZI VOR/DME.

### BURLEY.ID BURLEY MUNI

TAKE-OFF MINIMUMS: All runways, cross departure

end of runway at or above 35' AGL DEPARTURE PROCEDURE: All runways, climb direct

BURLEY (BYI) VOR/DME, Continue climb on R-305 within 10 miles to cross BYLVOR/DMF: R-024 CW R-054 at or above 5500: R-055 CW R-240 at or above 8000: R-241 CW R-023 at or above 5900.

NOTE: Rwv 2. bridge 252' from departure end of runway. 513' left of centerline, 110' AGL/4195' MSL, Stack 2205' from departure end of runway, 857' right of centerline. 79' AGL/4236' MSL. Elevator 4092' from departure end of runway, 297' right of centerline, 133' AGL/4283' MSL. Rwv 20. antenna 523' from departure end of runway, 338' right of centerline, 43' AGL/4217' MSL, Rwv 24, tree 630' from departure end of runway, 521' right of centerline, 41' AGL/4215' MSL, Grain elevator 3106' from departure end of runway, 163' left of centerline. 137' AGI /4317' MSI

#### **BURLINGTON/MOUNT VERNON, WA**

SKAGIT RGNI (BVS)

ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: Rwy 4, 3000-2 or std. with a min, climb of 340' per NM to 3600, Rwy 10, 1700-2 or std. with a min. climb of 245' per NM to 2300. Rwy 22. 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: Rwvs 4.10.22, turn right heading 280°. Rwy 28, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CW R-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: Rwv 4, tree 2581' from departure end of runway. 426' left of centerline, 100' AGL/212' MSL, Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.



BURNS OR

#### BURNS MUNI

DEPARTURE PROCEDURE: Rwv 3, climbing right turn thence Rwv12 climbto 4600 via heading 117°

thence... Rwys 21.30, climbing left turn, thence...

All aircraft departing on ILR R-072 CWR-209 climb on course, All others climb on ILR R-123 within 10 NM

to cross ILR VOR/DMF at or above 5000 NOTE: Rwy 21, pole 820' from departure end of runway 357' left of centerline, 20' AGL/4169' MSL.

#### **BUTTE. MT BERT MOONEY**

TAKE-OFF MINIMUMS: Rwv 11 NA-obstacles Rwv 15. std. w/min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions Rwy 29, std. w/min.climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions, Rwv 33, std, w/min, clim b of 355' per NM to

6800 or 3300-3 for climb in visual conditions. DEPARTURE PROCEDURE: Rwv 15, climbing right turn direct CPN VOR/DMF or for climb in visual conditions: Cross Bert Mooney Airport westbound at or

above 8800 then proceed direct CPN VOR/DME. thence Rwy 29, climb heading 293° to intercent CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME. thence... Rwv 33, climb direct CPN VOR/DME, or for climb in visual condtions: Cross Bert Mooney Airport

...climb in CPN VOR/DME holding pattern (hold north. left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute NOTE: Rwv 15, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to

westbound at or above 8800 then proceed direct CPN

100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL. Rwy 29, multiple trees and poles beginning 364' from

departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from

departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. Rwy 33, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/

#### CALDWELL. ID CALDWELL INDUSTRIAL

5583'MSL.

VOR/DME.thence...

TAKE-OFF MINIMUMS: Rwv 12, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: Rwy 12, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. Rwy 30, climb

via heading 299° to 4400 before proceeding on course. NOTE: Rwy 12, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. Rwy 30, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

#### CASPER WY CASPER/NATRONA COUNTY INTL (CPR)

AMDT 3A 09155 (FAA)

DEPARTURE PROCEDURE: Rwvs 3.8.12. turn left. All other runways, turn right, All aircraft climb direct

DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS. WA CHEHALIS-CENTRALIA

DEPARTURE PROCEDURE: Rwv 16, climb to 1000 via

heading 160° then climbing left turn to 4000 via heading 001° and OLMR-151 to OLM VORTAC before proceeding on course. Rwy 34, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

#### CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON FIELD NOTE: Rwv 13, multiple trees beginning 74' from

of centerline, up to 69' AGL/6229' MSL.

departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL, Rwv 27, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/

6211'MSL, Rwv 31, multiple trees, road, fence and sign

centerline, up to 40' AGL/6238' MSL. Multiple poles and

sign beginning 407' from departure end of runway, 8' left

beginning 196' from departure end of runway, 76' left of

CODY, WY

YELLOWSTONE RGNI

TAKE-OFF MINIMUMS: Rwy 4, 1500-2 or std. with a min. climb of 250' per NM to 6800. Rwy 22, 1600-2 or

std, with a min, climb of 340' per NM to 6200. DEPARTURE PROCEDURE: Rwys 4,22, turn left. All aircraft climb direct COD VOR/DME, Climb in COD VOR/DME holding pattern (N. left turns, 189° inbound) to cross COD VOR/DME at or above: COD

R-350 CW R-170, 6000; or R-171 CW R-349, 11800.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY BOYINGTON FLD

TAKE-OFF MINIMUMS: Rwv 5, CAT A.B. 1700-2 or std. with a min, climb of 230' per NM to 4000, CAT C.D. 2600-2 or std. with a min. climb of 320' per NM to 5400. DEPARTURE PROCEDURE: Rwys 1,5, turn left, climb

via COE R-005 to 5400, reverse course, continue climb direct COE VOR. Rwy 19, turn right. Rwy 23, turn left, climb via COE R-232 to 5000, reverse course, continue climb direct COE VOR.

COLSTRIP, MT

COLSTRIP (M46) AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: Rwy 6 use CISPU (RNAV) DEPARTURE. Rwy 24, use CONUK (RNAV) DEPARTURE

9351



#### CONRAD, MT CONRAD

DEPARTURE PROCEDURE: Rwv 24, climb runwav

heading to 4300, then continue climb on course CORVALLIS, OR

#### CORVALLIS MUNI

TAKE-OFF MINIMUMS: Rwvs 9, 17, 35, std. with a min.

climb of 290' per NM to 3100 or 1700-3 for climb in

DEPARTURE PROCEDURE: Rwys 9, 17, climbing left

inbound) to depart at or above 3400

COWLEY/LOVELL/BYRON.WY

min. climb of 360' per NM to 5600.

TAKE-OFF MINIMUMS: Rwvs 3.21. NA.

NORTH BIG HORN COUNTY

above 9000.

DEER PARK. WA

DEER PARK

VORTAC.

DILLON. MT

DILLON

VOR/DME at or above 3400

visual conditions. Rwv 27, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

...climb in CVO VOR/DME holding pattern (E. RT. 261°

NOTE: Rwv 9, multiple trees and railroad beginning 549'

from departure end of runway, 254' left of centerline, up

beginning 670' from departure end of runway, 5' right of

obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure

DEPARTURE PROCEDURE: Rwvs 9.27. aircraft

TAKE-OFF MINIMUMS: Rwy 4, 3000-2 or std. with a

DEPARTURE PROCEDURE: Rwv 16. climb runwav

heading; Rwy 22, climbing left turn to heading 130°; Rwvs 4.34, climbing right turn to heading 210°:

All aircraft intercept and continue climb via the 170°

DEPARTURE PROCEDURE: Rwys 16,34, turn right,

185° inbound) to cross DLN VOR/DME at or above:

climb in DLN VOR/DME holding pattern (N, right turns,

northwestbound V257 8500; southwestbound V121 8500; northbound V217600; southeastbound V21, V2579400.

bearing from DPY NDB to intercept GEG R-006 to GEG

departing via HCY NDB bearings 130° CW 225° climb

on course, all others climb in HCY NDB holding pattern (W. right turns, 078° inbound) to cross HCY NDB at or

end of runway, 544' left of centerline up to 36' AGL/276'

to 153' AGL/383' MSL. Multiple trees and railroad

centerline, up to 135' AGL/380' MSL, Rwv 27.

turn direct CVO VOR/DME, thence...or, climb in visual

Rwys 27, 35, climbing right turn direct CVO VOR/DME.

thence or climb in visual conditions to cross CVO

conditions to cross CVO VOR/DMF at or above 3400

or above: R-181 CW R-199 9600: R-200 CW R-252 0000

DRIGGS.ID

DOUGLAS, WY

CONVERSE COUNTY

3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from

DRIGGS-REED MEMORIAL (DIJ)

departure end of runway, 1954' right of centerline, 35' AGL/5132 MSL. Rwy 23, trees 2068 from departure

549' right of centerline, 35' AGL/5014' MSL, Trees

NOTE: Rwv 5, trees 1883' from departure end of runway,

end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

TAKE-OFF MINIMUMS: Rwv 5. 300-2 or std. with a min.

climb of 250' per NM to 5200. Rwy 23, 1700-3 or std.

via IIP VOR/DME R-342 to IIP VOR/DME, Rwv 11.

IIP VOR/DME R-325 to IIP VOR/DME. All aircraft

departing IIP R-253 CW R-180 climb on course. All

others continue climb in IIP VOR/DMF holding pattern

(NW, left turns, 125° inbound) to cross IIP VOR/DME at

VOR/DME. Rwy 23, climbing left turn via IIP VOR/DME

R-264 to IIP VOR/DME. Rwy 29, climbing right turn via

climbing right turn via IIP VOR/DME R-312 to IIP

with a min. climb of 260' per NM to 7200. DEPARTURE PROCEDURE: Rwv 5. climbing right turn

DEPARTURE PROCEDURE: Use LAMON

DEPARTURE EASTSOUND. WA

AMDT 2 08157 (FAA)

ORCAS ISLAND (ORS) AMDT 1 09351 (FAA)

TAKE-OFF MINIMUMS: Rwy 16, NA-Terrain. Rwy 34,

500-3 or std, w/min, climb of 224' per NM to 600.

DEPARTURE PROCEDURE: Rwv 34, climbing right

turn to 2000 to intercept HUH VORTAC R-210 to HUH

VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800

before proceeding on course. NOTE: Rwv 34, trees beginning 330' from DER, 411' left

of centerline, up to 120' AGL/139' MSL.

BOWERS FIELD

**ELLENSBURG.WA** TAKE-OFF MINIMUMS: Rwys 7,11, 4600-3 or std. with a min. climb of 290' per NM to 7800. Rwy 25, 4700-3 or

std. with a min. climb of 340' per NM to 7800. Rwy 29. 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: Rwvs 7.29. climbing right

turn direct ELN VORTAC. Rwys 11, 25, climbing left turn direct ELN VORTAC. All aircraft, continue climbing in the ELN VORTAC holding pattern (W. right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA. WA

EPHRATA MUNI (EPH) AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: Rwv 29. NA-Obstacles.

DEPARTURE PROCEDURE: Rwy 3, climb heading 027° to 2300 before proceeding on course. Rwy 11, climb heading 112° to 2200 before proceeding on course. Rwy 21, climb heading 207° to 2800 before proceeding on course.



### **EUGENE.OR**

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: Rwys16L,16R,climb to 1000 then climbing right turn... Rwys 34L, 34R, climb to 1000 then climbing left turn

...all aircraft climb direct EUG VORTAC, then climb in

FUG VORTAC holding pattern (hold north, right turn) 175° inbound) to cross EUG VORTAC at or above MEA

altitude before proceeding enroute.

NOTE: Rwv 16R, tree 1992 from departure end of

runway, 832' left of centerline, 50' AGL/419' MSL, Rwy 16L, multiple trees and power poles beginning 872' from

AGL/437' MSL, multiple trees and power poles

departure end of runway, 35' right of centerline, up to 50' beginning 890' from departure end of runway 77' left of

centerline, up to 50' AGL/433' MSL, Rwv 34R, multiple

trees beginning 2869' from departure end of runway. 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline 50' AGI /428' MSI

#### **EVANSTON.WY** EVANSTON-UINTA COUNTY BURNS FIELD

direction of flight.

DEPARTURE PROCEDURE: Rwv 5, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME.

Rwy 23, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME. All aircraft: cross FBR VOR/DME at or above MEA for

### **EVERETT.WA**

SNOHOMISH COUNTY (PAINE FIELD) TAKE-OFF MINIMUMS: Rwy 29, std. with a min. climb of

353' per NM to 800.

DEPARTURE PROCEDURE: Rwvs 11, 16L/R, climbing right turn, thence...Rwvs 29.34L/R, climbing left turn.

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding

pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course. NOTE: Rwy 11, multiple antennas on building, rod on obstruction light, and trees beginning 326' from

departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. Rwy 16L, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building of centerline, up to 78' AGL/657' MSL. Rwy 16R,

beginning 449' from departure end of runway, 162' right multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL.

Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. Rwy 29, multiple trees beginning 45' from departure end of runway, 66' left of centerline. up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. Rwy 34R, multiple trees and pole

beginning 3340' from departure end of runway, 180' right

of centerline, up to 95' AGL/674' MSL. Tree 5762' from

departure end of runway, 221' left of centerline, 103'

FAIRCHILD AFB (KSKA) SPOKANE. WA ..... ORIG, 08017

DEPARTURE PROCEDURES: Rwy 5 climb on track 048° to intercept SKA R-045 to 5300, then on

course Rwy 23 climb on track 241° to 3400 then

TAKE-OFF OBSTACLES: Rwv 23 Terrain 2468

MSI 194' from DER 405' right of centerline Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL 509' from DER 750' right of centerline

#### FORT BENTON, MT **FORT BENTON**

TAKF-OFF MINIMUMS: Rwvs 5.23, std. w/min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions. DEPARTURE PROCEDURE: Rwys 5, 23, for climb in

visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

#### FORT BRIDGER, WY FORT BRIDGER

DEPARTURE PROCEDURE: All aircraft climb direct FBR VOR/DME. Aircraft departing: FBR R-210 CW R-135 climb on course: FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

#### FRIDAY HARBOR, WA FRIDAY HARBOR

TAKE-OFF MINIMUMS: Rwy 34,500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB Rwv 34, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

### GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC) AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: Rwy 16, std. w/min. climb of

275' per NM to 5600, or 1200-3 for climb in visual conditions. Rwy 21, 600-3 or std. w/min. climb of 425' per NM to 5200 DEPARTURE PROCEDURE: Rwv 16. climb via

heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on

course. Rwy 21, climb via heading 206° to 5200, before proceeding on course. NOTE: Rwy 3, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL, Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. Rwy 16, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right

MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30 'AGL/4729' MSL. Rwy 34, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL Vehicle on road 1609' from DER, 419' left of centerline. 15' AGL/4394 'MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449 'MSL, Vehicle on road 1610'

from DER, 419' left of centerline, 15' AGL/4380' MSL

of centerline, up to 51' AGL/4789' MSL. Rwy 21, fence

328' from DER, 267' left of centerline, 7' AGL/4352'

9351

AGL/682'MSL.



#### GOODING ID GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: Rwv 7, climb heading

068° to 5000 before turning left, Rwy 25, climb heading 233° to 5600 before turning right

NOTE: Rwv 7, rising terrain 59' from departure end of runway 479' right of centerline up to 3754' MSI. Fence

line 653' from departure end of runway, 332' right of

centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL, Rwy 25, vehicle on

road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

#### GRANGEVILLE. ID

IDAHO COUNTY (S80) AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: Rwy 7, NA - Obstacles.

DEPARTURE PROCEDURE: Rwv 25, Use MELLR DEPARTURE

#### GRANTS PASS, OR **GRANTS PASS**

TAKE-OFF MINIMUMS: Rwy 12, NA. Rwy 30, 4000-3 or std. with a min. climb of 360' per NM to 5000. DEPARTURE PROCEDURE: Rwy 30, climb via heading 320 until passing 5000, then climbing right turn direct

RBG VOR/DME, Cross RBG VOR/DME at or above MEA for route of flight.

#### **GRAY AAF (KGRF)**

FORT LEWIS. WA

.. Rwy 15, 300-1\*

Rwv 33, 300-1\*\* \* Or standard with minimum climb of 430/NM to 500. \*\* Or standard with minimum climb of 380/NM to 600.

Rwy 15 climb runway heading to 700 then climbing left turn direct GR LOM. Rwy 33 climb runway heading direct GR LOM. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GR LOM climb on course.

All others continue climb in GR holding pattern (Hold NW. RT. 147° inbound) to cross GR LOM at or above: 071° CW 134° bearing from GR LOM, 8500; 261° CW 329° bearing from GR LOM, 1500.

#### **GREAT FALLS, MT**

**GREAT FALLS INTL** 

NOTE: Rwy7, obstruction light on lighted wind sock 237 from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226 from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. Rwy 21, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. Rwy 25, windmill 2.3 NM from departure end of runway, 4197'

right of centerline, 338' AGL/4003' MSL.

#### GREYBULL.WY SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: Rwv 25. 300-1 or std. w/min. climb of 260' per NM to 4200

DEPARTURE PROCEDURE: All runways for departures on GEY bearings 320° CW 150°, climb in GEY NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures GEY bearings 150° CW 320° climb

on course NOTE: Rwv 25, bush 4955' from DER, 1268' right of

centerline 2'AGI /4101'MSI

#### **GUERNSEY.WY** CAMP GUERNSEY

TAKE-OFF MINIMUMS: Rwv 14, 300-1 or std. with a

min\_climb of 320' per NM to 4700\_Rwv 32, 1400-2 or std, with a min, climb of 320' per NM to 5800. DEPARTURE PROCEDURE: Rwv 14, climb to 5600 via heading 150°, Rwv 32, climb to 5800 via heading 070°. All aircraft continue on course.

#### HAILEY.ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: Rwy 13, 2700-3 w/ min. climb of

307' per NM to 6400, or 3600-3 for climb in visual conditions. Rwv 31. NA-obstacles. DEPARTURE PROCEDURE: Rwv 13, Climbing right

turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: Rwy 13, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100'AGL/6099'MSL

#### HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.



#### HAVRE MT HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: Rwv 8, 300-134 or std. w/min.

climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: Rwv 3. climb heading

032° to 3300 then climbing left turn to 8000 direct HVR

then climbing left turn to 8000 via HVR R-025 to HVR

VOR/DME thence...Rwv 8. climb heading 077° to 3300

VOR/DME thence...Rwv 21. climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DMF

climbing right turn to 8000 direct HVR VOR/DME thence... ...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross

thence...Rwy 26, climb heading 257° to 3300 then

course.

HVR VOR/DME at or above 8000 before proceeding on

NOTE: Rwv 3, pole 2682' from DER, 1044' left of

centerline, 21'AGL/2680'MSL, Rwv 8, obstruction light on windsock 59' from DER 224' left of centerline 9' AGL/2588' MSL, Tree 1192' from DER, 752' left of

centerline, 25' AGL/2610' MSL, Tank 1.3 NM from DER. 2287' left of centerline, 57' AGL/2797' MSL, Rwy 26. light on windsock, 50' from DER, 225' right of centerline,

9'AGL/2589' MSL. Trees beginning 1617' from DER. 650' right of centerline, 25' AGL/2659' MSL.

#### HELENA. MT

HELENA RGNL (HLN)

ADMT 9 08269 (FAA) TAKE-OFF MINIMUMS: Rwv 5, 2500-3 or std. w/min.

climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. Rwy 9, std. w/min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. Rwv 23.1600-3 or std. w/min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions, Rwv 27,1600-3 or std. w/min. climb of 390' per NM to 8100,

or 1600-3 for climb in visual conditions. Rwys 16,34, NA. DEPARTURE PROCEDURE: Rwys 5,9, climbing left turn heading 270°. Rwys 23,27, climbing right turn heading 020°. All Aircraft: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for

climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on NOTE: Rwy 5, ground beginning 5' from departure end of

runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. Rwy 23, pole 2198' from departure end of runway, 462' left of

centerline, 76'AGL/3996'MSL, tree 1011'from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321'

left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. Rwy 27, buildilng 1593' from departure end of runway, 731' left of centerline, 58'AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/ 3906' MSL.

#### HERMISTON OR HERMISTON MUNI NOTE: Rwv 4, tower 379' left of departure end of

runway 50' AGI /698' MSI Rwy 22, light pole 456' left of departure end of runway, 44' AGL/684' MSL. HOQUIAM, WA

#### **BOWERMAN** TAKE-OFF MINIMUMS: Rwv 6 600-2 or std with a

min, climb of 260' per NM to 600. DEPARTURE PROCEDURE: Rwv 6. climbing right turn heading 110°: Rwy 24, climb runway heading. All aircraft climb to 600 continue climb on course.

per NM to 7700, or 2200-3 for climb in visual

#### **HULETT. WY HULETT MUNI (W43)**

ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: Rwv 13, std, w/min, climb of 450' per NM to 6300, or 500-21/4 w/min, climb of 295'

DEPARTURE PROCEDURE: Rwv 13. climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. Rwv 31. climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course. NOTE: Rwv 13, road 398' from departure end of runway.

37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. Rwv 31, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

### **IDAHO FALLS, ID**

IDAHO FALLS RGNL (IDA) AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: All aircraft departing

IDA R-160 CW R-040 climb on course. All others climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to

proceeding on course.

NOTE: Rwy 2, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. Rwy 17, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. Rwy 35, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL, Tree 1034' from

cross IDA VOR/DME at or above 7500 before

#### JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: Rwy 1, use GEYSER DEPARTURE. Rwy 19, use TETON DEPARTURE.

DER, 715' left of centerline, 42' AGL/4762' MSL.



#### JEROME.ID JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: Rwv 9. 500-134 or std. w/min.

climb of 435' per NM to 4700 DEPARTURE PROCEDURE: Rwv 9. climb heading

086° to 5300 before proceeding on course, Rwy 27. climb heading 266° to 4800 before proceeding on course

NOTE: Rwv 9, bush 140' from DER, 500' left of

centerline, 16' AGL/4076' MSL, Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49'

AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline. up to 53' AGL/4137' MSL. Building 2186' from DER.

173' left of centerline, 29' AGL/4119' MSL, Rising terrain starting 2549' from DER, 560' left of centerline. up to 4219' MSL, AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL, Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL.

Rwy 27, fence starting 18' from DER, 440' left of

#### JOHN DAY, OR

GRANT COUNTY RGNI /OGII VIE FIFI D (GCD)

AMDT 1 09015 (FAA) TAKE-OFF MINIMUMS: Rwvs 9, 17, 35, NA. Terrain.

centerline, up to 9' AGL/3969' MSL.

DEPARTURE PROCEDURE: Rwv 27, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC. climb in IMB VORTAC holding pattern (E. right turns. 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: Rwv 27, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662'

MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

#### KALISPELL, MT GLACIER PARK INTI

DEPARTURE PROCEDURE: Use SKOTT DEPARTURE.

#### KELSO. WA

#### SOUTHWEST WASHINGTON RGNL TAKE-OFF MINIMUMS: Rwv 12, NA, Rwv 30, 1200-2 or

BTG VORTAC or MEA for route of flight.

std. with a min. climb of 320' per NM to 1300. DEPARTURE PROCEDURE: Departure procedure

limited to CAT A.B aircraft, Rwv 30, climb straight ahead to 1500 then climbing right turn direct LSO NDB. Continue climb in holding pattern (N, right turns, 171° inbound) to cross LSO NDB at or above 3000 direct

#### KEMMERER WY KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: Rwvs 4.10.22.28. NA-Rwv

DEPARTURE PROCEDURE: Rwv 16, climb to 12000 via heading 166° and EBR VOR/DME R-330 to EBR VOR/ DME before proceeding on course Rwv34, climb via

heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DMF R-345 to FBR VOR/ DMF before proceeding on course KLAMATH FALLS, OR

#### KI AMATH FALLS

TAKE-OFF MINIMUMS: Rwv 7 NA Rwv 14 1100-3 or std, with a min, climb of 275' per NM to 5500. Rwy 25. 3300-3 or std. with a min\_climb of 250' per NM to 7400. Rwv 32, 2000-3 or std, with a min, climb of 320' per NM to 6300 DEPARTURE PROCEDURE: Rwys 14.25 climbyia runway heading to 6000 then climbing right turn direct

LMTVORTAC thence Rwv32 climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W. right turns 070° inbound) to cross LMT VORTAC at or above 8000.

### LA GRANDE, OR

#### LA GRANDE/UNION COUNTY TAKE-OFF MINIMUMS: Rwv 12. Cat A/B 2900-3 or std.

with a min, climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min\_climb of 500' per NM to 7800. Rwy 30, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34,** 2900-3 or std. with a min. climb of 350' per NM to 6100. Rwy 16, 2000-3 or std.

with a min, climb of 500' per NM to 5000. DEPARTURE PROCEDURE: Rwy 12,16, climbing left turn direct LGD NDB, thence: Rwvs 30.34, climbing right turn heading 010°, thence; all aircraft climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn

#### LAKEVIEW. OR

direct LGD NDB.

#### LAKE COUNTY

TAKE-OFF MINIMUMS: Rwv 16, 3700-5 or std. with a min, climb of 320' per NM to 8800, Rwv 34, 2500-5 or std. with a min. climb of 320' per NM to 8500. DEPARTURE PROCEDURE: Rwy 16, climbing right turn

via LKV R-163 to LKV VORTAC. Rwy 34, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. All aircraft continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

#### LARAMIE. WY

LARAMIE RGNL

DEPARTURE PROCEDURE: Rwv 3. turn left. 12.21, turn right. All aircraft climb direct LAR VORTAC. continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above; westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.



#### LAUREL, MT LAURFI MUNI

TAKE-OFF MINIMUMS: Rwvs 9.14.27.32. NA. DEPARTURE PROCEDURE: Rwy 22 turn left All aircraft climb direct BIL VORTAC

#### I FWISTON ID I FWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: Rwys 8.11.26.29 turn left

direct MOG VOR/DMF Continue climb in holding pattern (W. left turns, 066° inbound) to cross MQG VOR/DMF at or above 3600

#### I FWISTOWN MT I FWISTOWN MUNI

TAKE-OFF MINIMUMS: Rwy 2, 1800-2 or std. with a min. climb of 280' per NM to 6900. Rwv 7.12, 900-2 or std, with a min, climb of 220' per NM to 6200.

DEPARTURE PROCEDURE: Rwys 2.30 turn left Rwys 7.12.20, turn right, Rwy 25, climb runway heading Allaircraft climb direct I WT VORTAC Continue climb in holding pattern (W. right turns, 094° inbound) to MEA for route of flight.

#### LEXINGTON, OR

#### LEXINGTON

TAKE-OFF MINIMUMS: Rwy 26, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions Rwv8, std with min\_climb of 490' per NM to 4200, or 1600-21/2 for climb in visual conditions.

DEPARTURE PROCEDURE: Rwvs 8.26, for climb in visual conditions: cross Lexington Airport at or above NOTES: Rwv 8, trees 1.42 NM from departure end of

runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

#### LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: Rwy 33, not authorized. Rwy 15, use EYESE RNAV DEPARTURE.

#### LIVINGSTON. MT

MISSION FIELD (LVM) AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: Rwys 8,13,26,31, NA-Enjvironmental

DEPARTURE PROCEDURE: Rwvs 4.22. use LIVINGSTON DEPARTURE.

#### MADRAS, OR MADRAS MUNI (\$33)

ORIG-A 09043 (FAA)

TAKE-OFF MINIMUMS: Rwv 16, std w/a min\_climb of

298' per NM to 3900 or 1100-21/2 for climb in visual conditions Rwy 22 std w/amin climb of 281 ner NM

to 3900 or 1100-21/2 for climb in visual conditions DEPARTURE PROCEDURE: Rwvs 4, 34, climbing left turn heading 210° and DSD R-348 to DSD VORTAC to

7000 before proceeding on course Rwy 16, climbing right turn heading 210° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course or .Rwv 22, climb heading 216° and DSD R-348 to DSD VORTAC to 7000 before proceeding on course or

for climb in visual conditions: cross Madras Muni at or above 3400 MSL, then direct DSD VORTAC to 7000 before proceeding on course

### MC CALL. ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA) TAKE-OFF MINIMUMS: Rwv 34, NA-Obstacles

DEPARTURE PROCEDURE: Rwv 16 use MCCALL DEPARTURE.

### MC CHORD AFB (KTCM)

TACOMA, WA . . . . . . . .

DEPARTURE PROCEDURE: Rwv 16. Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER), Cross ALDER at or above 4000, After ALDER, maintain MEA/MOCA for route of flight, Rwv 34, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER), Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: Rwv 16. Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER. 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline, Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline, Trees 83' AGL/392' MSL, 2006' from DER. 959' left of centerline, Trees 87' AGL/389' MSL, 1758'

from DER, 971' left of centerline, Rwv 34. Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER. 407' left of centerline, Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline, Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.



### MC MINNVILLE. OR

MC MINNVILLE MUNI (MMV) AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: Rwv 4, 400-11/4 or std. w/min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb

gradient, take-off must occur no later than 2000' prior to departure end of runway Rwy 17, std w/min\_climb of 300' per NM to 1200 or 1800-21/2 for climb in visual conditions, Rwv 22, std, w/min, climb of 303' per NM to 1400 or 1800-21/2 for climb in visual conditions

DEPARTURE PROCEDURE: Rwv 4, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence

Rwy 17.22, climbing left turn to intercept UBG R-183 to UBG VOR/DMF thence or for climb in visual conditions: cross Mc Minnville Muni at or above 1800

before proceeding on course, Rwv 35, climb heading 347° to intercept UBG R-221 to UBG VOR/DME. thence ... continue climb in UBG VOR/DME holding pattern (S.

left turns, 003° inbound) until reaching MEA for route of NOTE: Rwv 4, multiple trees beginning 2040' from

departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL, Rwv 17, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL, Tree 1760' from departure end of runway, 627' left of centerline. 100' AGL/257' MSL. Rwv 22. multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from

departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. Rwv 35, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277'MSL.

#### MEDFORD.OR

ROGUE VALLEY INTL-MEDFORD (MFR) AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: Rwvs 9.27. NA-Obstacles. Rwv 14, std. w/min, climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. Rwy 32, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: Rwv 14. climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Roque Valley Intlairport at or above 4100 before proceeding direct OED VORTAC... Rwy 32, climbing right turn direct OED VORTAC, or for

climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC... ...all aircraft climb in OED VORTAC holding pattern

(hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

#### MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: Rwys 7,25, NA-Obstacles DEPARTURE PROCEDURE: Rwvs 11. 29. use GRZLY DEPARTURE.

#### MOSES LAKE, WA GRANT COUNTY INTI NOTE: Rwv 14R, antenna 3902' from departure end of

runway, 828' right of centerline, 98' AGL/1268' MSL. Rwv 18, pole 405' from departure end of runway 334' right of centerline, 30' AGL/1209' MSL, Windsock 496' from departure end of runway 371' left of centerline 16' AGL/1195' MSL. Rwv 32L, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSI

#### **MOUNTAIN HOME AFB (KMUO)** MOUNTAIN HOME. ID . . . . . . . . . 07270

#### Rwv12.30 6700-3\*

\* Or standard with minimum climb of 270/NM to 9100. TAKE-OFF OBSTACLES: Rwv 12. Terrain 0' AGL/

3028' MSI 1224' from DER 744' right of centerline Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline, Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline, Terrain 0' AGL/ 3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL /3018' MSL 148' from DER 328' left of centerline, Terrain 0' AGL/3016' MSL, 300' from DER. 580' left of centerline. Road/Vehicle 15' AGL/ 3044' MSL. 1147' from DER, 794' right of centerline. Powerpole 35' AGL/3069' MSL, 2914' from DER. 940' right of centerline. Tower 30' AGL/3032' MSL. 1067' from DER, 902' right of centerline, Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from

0' AGL/2995' MSL, 40' from DER, 492' left of centerline, Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline, Terrain 0' AGL/ 3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline, Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

DER, 1478' left of centerline, Rwv 30. Terrain

### MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: Rwy 10, 3500-2 or std. with a min, climb of 305' per NM to 7300, Rwy 28, 3500-2 or std, with a min, climb of 290' per NM to 7300. DEPARTURE PROCEDURE: Rwv 10, climbing left turn direct STI NDB. Rwy 28, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E. left turns, 271° inbound) to cross STI NDB at or above 7300.

#### NAMPA. ID

NAMPA MUNI

DEPARTURE PROCEDURE: Rwy 11, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course. Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPANDB at or above 5500 before proceeding on NOTE: Rwy 11, 70' AGL tree, 1225' from departure end of

runway, 90' right of centerline.

 $\overline{f V}$  take-off minimums and (obstacle) departure procedures

OLYMPIA. WA

OLYMPIA RGNI (OLM)

AMDT 5A 09127 (FAA)

visual conditions.

TAKE-OFF MINIMUMS: Rwv 17, 300-2 or std. with a

DEPARTURE PROCEDURE: Rwv 8, climb heading

085° to 1000 then climbing left turn direct OLM VORTAC, thence...Rwy 17, climb heading 172° to 1200

turn direct OLM VORTAC, thence...

min, climb of 706' per NM to 600, or 2200-3 for climb in

then climbing right turn direct OLM VORTAC, thence.

or climb in visual conditions to cross QLM VORTAC at

or above 2300, thence... Rwy s 26.35, climbing right

... continue climb in OLM VORTAC holding pattern

VORTAC at or above MEA/MCA for route of flight.

NOTE: Rwv 8, multiple trees beginning 880' from DER.

Multiple trees beginning 1636' from DER, 131' right of centerline, up to 100' AGL/320' MSL, Rwv 17, multiple trees beginning 1008' from DER, 24' left of centerline.

up to 100' AGL/490' MSL. Multiple trees beginning 752'

from DER, 3' right of centerline, up to 100' AGL/370'

beginning 475' from DER, 595' left of centerline, up to

100' AGL/330' MSL. Multiple trees beginning 338' from

DER, 339' right of centerline, up to 100' AGL/309' MSL.

Rwv 35, multiple trees beginning 2176' from DER, 198'

DER, 621' right of centerline, up to 100' AGL/315' MSL.

left of centerline, up to 100' AGL/313' MSL. Multiple

trees and field light on hangar beginning 657' from

TAKE-OFF MINIMUMS: Rwv 17, 2200-2 or std. with a

DEPARTURE PROCEDURE: Rwv 17, use GETNG

DEPARTURE PROCEDURE: Rwy 32, climb to 9600 on

a heading between 010° CW to 141° from departure end

of runway or minimum climb of 280' per NM to 9600 for

NOTE: Rwy 14, multiple trees, poles, and buildings beginning 90' from departure end of runway, 157' right of

centerline up to 120' AGL/2314' MSL. Multiple trees,

of runway, 506' left of centerline up to 120' AGL/2314'

MSL. Rwy 32, multiple trees, poles, and buildings

centerline up to 100' AGL/2458' MSL. Multiple trees,

runway, 472' right of centerline up to 100' AGL/2431'

poles, and buildings beginning 502' from departure end

beginning 340' from departure end of runway, 405' left of

poles, and buildings beginning 2' from departure end of

min. climb of 300' per NM to 4200, Rwv 35, NA.

RNAV DEPARTURE. Rwy 35, NA.

MSL. Rwy 26, multiple trees and WSK on building

(south, right turn, 356° inbound) to cross OLM

214' left of centerline, up to 100' AGL/343' MSL.

NEWCASTI F. WY MONDELL FIELD (ECS) AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: Rwvs 5.17.23.35, NA. Rwv 13.

200-1 or std. with a min. climb of 275' per NM to 4400.

Rwv 31, 300-1 or std with a min\_climb of 300' per NM to 4600 DEPARTURE PROCEDURE: Rwv 31, climbing left turn

All aircraft climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: Rwv 13, fence posts, beginning 299' from DER 218' left of centerline, up to 10' AGL/4190' MSL, Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. Rwv 31, multiple poles, beginning 74'

from DER, 237' right of centerline, up to 20' AGL/4200'

MSI\_Bush 5787'from DER\_1441' right of centerline\_13' MSL/4363' MSL, Railroad 735' from DER, 314' right of centerline 30'AGL/4202' MSL, Road 207' from DER. 254'right of centerline, 15' AGL/4187'MSL.

**NEWPORT.OR** NEWPORT MUNI TAKE-OFF MINIMUMS: Rwv 2 NA Rwv 16 500-2 or std, with a min, climb of 310' per NM to 800

DEPARTURE PROCEDURE: Rwv 2. NA. Rwv 16. turn right, Rwy 34, turn left, Aircraft departing via ONP R-180 CWR-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200 NORTHBEND, OR

#### SOUTHWEST OREGON RGNL (OTH) AMDT 4B 09071 (FAA) TAKE-OFF MINIMUMS: Rwv 4, 800-2 or std. with a min.

climb of 340' per NM to 900. Rwy 13,800-2. Rwys 16,34, NA-Rwy closed. Rwy 31, 300-2 or std. with a min, climb of 240' per NM to 400. DEPARTURE PROCEDURE: Rwys 4,31, turn left. Rwys 13, 22, turn right. All aircraft climb via OTH VORTAC R-250 to 1300 then climbing right turn direct OTH

NOTE: Rwy 13, spire 3468' from departure end of runway, 1128' left of centerline, 55' AGL/243' MSL, multiple trees beginning 3068' from departure end of runway, 78' left of centerline, up to 132' AGL/291' MSL. OAKHARBOR, WA

#### A J EISENBERG (OKH) ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: Rwy 7, 300-1. Rwy 25, 300-1

DEPARTURE PROCEDURE: Rwy 7. climb via heading 071° to 2000, then climbing right turn direct CVV

via heading 251° to 2100, then climbing left turn direct CVV VOR/DME. Continue climb on course. NOTE: Rwy7, multiple trees beginning 1167' from DER, 212' left of centerline, up to 80' AGL/319' MSL. Multiple PASCO, WA

trees beginning 664' from DER, 208' right of centerline,

up to 80' AGL/299' MSL. Fence 612' from DER, right

bushes beginning 240' from DER, 64' left of centerline,

up to 8' AGL/227' MSL. Rwy 25, cars on road 87' from

DER, left and right of centerline, up to 15' AGL/174' MSL. Multiple trees beginning 2271' from DER, right and left of centerline, up to 80' AGL/279' MSL.

and left of centerline, 10' AGL/229' MSL. Multiple

VOR/DME. Continue climb on course. Rwy 25, climb

TRI-CITIES

MSL.

OMAK. WA

ONTARIO.OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

all other courses.

**OMAK** 

DEPARTURE PROCEDURE: All runways, climb runway heading to 1000, thence... Rwy 12, turn left. All others turn right. All aircraft climb direct PSC VOR/DME before proceeding on course.

9351

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES 🔽



TAKE-OFF MINIMUMS: Rwv 3, 500-3 or std. w/min.

climb of 400' per NM to 600, Rwy 10L/R, std. w/min.

climb of 270' per NM to 2900, Rwy 21, std. w/min, of

DEPARTURE PROCEDURE: Rwv3, climb heading

to 500, then climbing left turn direct BTG VORTAC.

thence ... Rwy 21, climb heading 205,03 to 500, then climbing right turn direct BTG VORTAC, thence

Rwys 28L, 28R, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence ...

... continue climb in BTG VORTAC holding pattern

(hold NW, right turns, 149° inbound) to cross BTG

NOTE: Rwv 3. signs, tower, trees, and vehicle on road

VORTAC at or above MCA/MEA before proceeding on

beginning 468' from departure end of runway, 28' left of

centerline, up to 100' AGL/449' MSL. Poles, trees, and

Rwv 10L, rising terrain and vehicle on road beginning 7'

to 17' AGL/60' MSL. Rwy 10R, pole 1996' from departure

end of runway, 758' right of centerline, 54' AGL/74' MSL.

note: Rwv 21, trees beginning 1319' from departure end

end of runway, 36' left of centerline, up to 100' AGL/317'

of runway, 155' right of centerline, up to 100' AGL/318'

MSL. Poles and trees beginning 353' from departure

Rwy 28R, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right

MSL. Rwv 28L, trees 1873' from departure end of

runway, 836' left of centerline, 50' AGL/88' MSL.

of centerline, up to 27' AGL/69' MSL.

🔽 TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES 🔽

from departure end of runway, 376' left of centerline, up

vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL.

VORTAC, thence ... Rwvs 10L.10R, climb heading 099°

025° to 700, then climbing left turn direct BTG

**FASTERN OREGON RGNI, AT PENDI ETON** 

DEPARTURE PROCEDURE: Rwvs 7, 29, 34, climbing

Rwys 11, 16, climbing right turn direct PDT VORTAC

left turn direct PDT VORTAC, thence

Rwy 25 climb direct PDT VORTAC, thence

at or above MEA before proceeding on course NOTE: Rwv 16, multiple trees beginning 232' from DER.

... continue climb in PDT VORTAC holding pattern (West left turn 073° inbound) to cross PDT VORTAC

348' right of centerline, up to 100' AGL/1579' MSL.

MSL. Rwy 29, terrain 189' from DER 247' left of

PINEDALE/RALPH WENZ FIELD (PNA)

Rwy 25, multiple antennas and terrain beginning 203'

from DER 259' left of centerline up to 13' AGL /1512'

TAKE-OFF MINIMUMS: Rwy 29, std. with a min. climb

of 310' per NM to 8300, or 4900-3 for climb in visual

DEPARTURE PROCEDURE: Rwv 11, climbing right

turn to 10000 via heading 190° and BPIR-040 to BPI

VOR/DME before proceeding on course, Rwy 29.

climbing left turn to 10000 via heading 230° and BPI R-020 to BPI VOR/DME before proceeding on course

Wenz Field at or above 11800 before proceeding on

NOTE: Rwy 12, multiple bushes beginning 47' from

departure end of runway, 71' left of centerline, up to 12'

AGL/2251' MSL. Multiple bushes beginning 362' from

departure end of runway, 514' right of centerline, up to

12' AGL/2251' MSL, Rwv 30, multiple bushes and road

beginning 68' from departure end of runway, 75' right of

centerline, up to 12' AGL/2303' MSL. Multiple bushes

beginning 217' from departure end of runway, 60' left of

DEPARTURE PROCEDURE: use KNURL ONE

TAKE-OFF MINIMUMS: Rwy 18, N/A-extremely precipitous terrain. Rwy 36, standard with a min. climb

DEPARTURE PROCEDURE: Rwy 36, Use ANGIL

NOTES: Rwy 36, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL, Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River

centerline, up to 12' AGL/2296' MSL.

or for climb in visual conditions; cross Pinedale/Ralph

PENDLETON, OR

AMDT 3 09183 (FAA)

centerline 1493 MSI

AMDT 2 09295 (FAA)

PINEDALE. WY

course.

SHER-WOOD

POCATELLO, ID

DEPARTURE. POLSON, MT POLSON

POCATELLO RGNL (PIH) AMDT 7 09351 (FAA)

of 270' per NM to 8400'.

RNAV DEPARTURE.

ridges.

9351

PLENTYWOOD, MT

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Conter departure, climb

from landing area direct to EDIZ HOOK NDB. Continue

climb in holding pattern (NE\_right turns\_237° inbound) to MEA for direction of flight.

PORTLAND INTL (PDX)

310' per NM to 1800.

AMDT 6 09015 (FAA)

WATTR FIVE DEPARTURE

DEPARTURE PROCEDURE: Rwvs 8.13, 26, 31, use

PORTI AND OR

WILLIAM R FAIRCHILD INTI



#### PORTLAND, OR (CON'T) PORTLAND-HILLSBORO

#### TAKF-OFF MINIMUMS: Rwv 30. 200-11/4 or std. with a

min, climb of 223' per NM to 500. Alternatively, with standard take-off minimums and a normal 2001/NM climb gradient, take-off must occur no later than 1600' prior to departure end of runway DEPARTURE PROCEDURE: Rwv 12, climbing right

turn direct UBG VOR/DME...Rwvs 2, 20, 30, climbing left turn direct UBG VOR/DMF

...all aircraft climb in UBG VOR/DME holding pattern (west, right turn, 108° inbound) to cross UBG VOR/

DME at or above MEA/MCA for direction of flight before proceeding on course. NOTE: Rwv 2, multiple roads beginning 246' from

departure end of runway, 3' right of centerline, up to 15' AGL/220' MSL, Rwy 12, multiple trees beginning 1842' from departure end of runway, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3629' from departure end of runway, 46' right of centerline, up to 143' AGL/332' MSL. Rwy 20, multiple trees and pole beginning 967' from departure end of runway, 118' left of centerline, up to 93' AGL/292' MSL. Vent of hangar 63' from departure end of runway, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on building beginning 965' from departure end of runway, 449' right of centerline, up to 74' AGL/273' MSL, Rwv 30, multiple trees beginning 1664' from departure end of runway. 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from departure end of runway, 603' left of centerline. 26' AGL/215' MSL.

#### PORTI AND-TROLITDALE

TAKE-OFF MINIMUMS: Rwy7, 3600-2 or std. with a min, climb of 380' per NM to 4100, Rwy 25, 900-2 or std. with a min, climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: Rwy7, turn left. Rwy 25, turn right, All aircraft climb via BTG R-125

direct BTG VORTAC, Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

#### POWELL, WY

#### POWELL MUNI

TAKE-OFF MINIMUMS: Rwy 3,16,21,34, NA. DEPARTURE PROCEDURE: Rwy 13, turn right. Rwv 31, turn left, All aircraft climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N. left turns, 189° inbound) to cross COD VOR/DME at or above 8800

#### PRINEVILLE, OR PRINEVILLE (S39)

AMDT 1 08213 (FÁA)

TAKE-OFF MINIMUMS: Rwv 10, std, w/min, climb of

350 feet per NM to 6500, or 2400-3 for climb in visual conditions Rwv 15, std w/min\_climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. Rwy 28. std w/min\_climb of 450' per NM to 6700\_or 2400-3 for climb in visual conditions Rwv 33, std. w/min.climb.of. 380' per NM to 6700, or 2400-3 for climb in visual

DEPARTURE PROCEDURE: Rwv 10, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course, Rwy 15, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni

airport at or above 5600 before proceeding on course. Rwv 28. climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. Rwv 33, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. NOTE: Rwv 10, trees beginning 2693' from departure end

of runway, 545' right of centerline, up to 100' AGL/3339' MSL. Rwv 15. trees beginning 1129' from departure end of runway 697' right of centerline up to 100' AGL /3319' MSL. Rwy 28, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. Rwv 33, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319'

#### PULLMAN-MOSCOW, WA

PULLMAN-MOSCOWRGNI

TAKE-OFF MINIMUMS: Rwv 5. 300-11/4 with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. Rwv 23, 300-1 or std, with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: Rwv 5, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions: cross Pullman-Moscow Ronl at or above 4500. Rwy 23, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: Rwv 5, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. Rwy 23, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.



PUYALLUP, WA PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: Rwv 16, 34, 300-1

DEPARTURE PROCEDURE: Rwv 16, climbing right

turn, Rwv 34, climb runway heading, All aircraft climb via

2700.171°CW360°1500.

SEAR-158 to COTNY INT/SEA 18.1 DME. Continue in

COTNY holding pattern (Hold S. left turns, 338°

MSL, Vehicles on road beginning 1149' from DER, 512'

beginning 1293' from DER, 529' left of centerline to 352'

DER, 303' left of centerline, 574' MSL, Rwv 34, multiple

1029' right of centerline, up to 694' MSL. Flagpole 1155'

trees beginning 58' from DER 591' left of centerline to

from DER, 464' left of centerline, 578' MSL, Building

564' from DER, 410' left of centerline, 555' MSL.

right of centerline, up to 15' AGL/582' MSL. Terrain

right of centerline, up to 581' MSL. Pipe 1520' from

inhound) to depart COTNY at or above: 001° CW 090°

3500.090° 3500.091°CW 120° 10.400.121° CW 170°

NOTE: Rwv 16. light pole 511' from DER, 567' right of

beginning 187' from DER, 416' left of centerline, up to

left of centerline to 540' right of centerline, up to 662'

575' MSL. Multiple trees beginning 363' from DER, 656'

centerline, 40' AGL/552' MSL. Multiple poles on building

RENTON, WA

157° to 700, then climbing right turn direct SEA

RENTON MUNI (RNT)

AMDT 7 09351 (FAA)

315' per NM to 700.

MEA/MCA for direction of flight.

of 405' per NM to 800, or 1100-21/2 for climb in visual

TAKE-OFF MINIMUMS: Rwv 16 std with a min\_climb

conditions Rwv 34 500-2% or std with a min\_climb of

DEPARTURE PROCEDURE: Rwv 16, climb heading

VORTAC, thence.... or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC.

thence... Rwv 34, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thence ...Climb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above NOTES: Rwv 16, trees, towers, lights and blast shield

beginning 185' from DER 4' left of centerline up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. Rwv 34. Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485'

### REXBURG.ID

REXBURG-MADISON COUNTY DEPARTURE PROCEDURE: Rwv 17, climbing right turn, Rwv 35, climbing left turn. All aircraft climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

MSI Trees terrain and wood piling beginning 75' from

DER, 7' right of centerline, up to 100' AGL/426' MSL.

NOTE: Rwv 17, 100'AGL trees 125' from departure end of runway, 350' left of centerline, Rwy 35, 100' AGL trees 350' from departure end of runway, 450' right of centerline, 100' AGL trees 750' from departure end of runway, 500' left of centerline.

#### **RAWLINS. WY** RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: Rwv 4, 600-2 or std, with a min.

climb of 440' per NM to 7500. Rwy 22, 1500-2 or std. with a min climb of 365' per NM to 8700. Rwvs 10.28, NA.

DEPARTURE PROCEDURE: Rwy 4, turn right. Rwy 22, turn left, Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWLR-200 to assigned route then climb on course.

### REDMOND. OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: Rwy 22, std. w/min. climb of 269' per NM to 4700. Rwy 28, std. w/min. climb of 276' per NM to 4800. DEPARTURE PROCEDURE: Rwv 4. climbing left turn

via heading 265° and DSD R-047 to DSD VORTAC,

climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. Rwy 10, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. Rwy 22, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. Rwy 28, climbing left turn via heading 275° and

before proceeding on course. NOTE: Rwy 28, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight



#### RICHI AND WA RICHI AND

TAKE-OFF MINIMUMS: Rwv 1, 200-1 or std. w/min. climb of 310' per NM to 700. Rwy 19. std. w/min. climb of 480' per NM to 2300, or 1800-21/2 for climb in visual

conditions, Rwv 26, 500-21/2 or std, w/min, climb of 309 per NM to 1000 DEPARTURE PROCEDURE: Rwv 1, climbing right turn via heading 070° and PSC R-301 to PSC VOR/

DME, thence...Rwv 8, climbing right turn direct PSC VOR/DME, thence... Rwv 19, climbing right turn via heading 040° and PSC R-269 to PSC VOR/DME, or for climb in visual conditions: cross Richland Airport at or above 2000 then proceed on PSC R-269, to PSC VOR/ DME thence...Rwy 26, climbing right turn via heading 070° and PSC R-287 to PSC VOR/DME, thence... ...climb in PSC VOR/DME holding pattern (hold East, right turn, 291° inbound) to cross PSC VOR/DME at or

above MEA for route of flight before proceeding on NOTE: Rwv 1, crane and multiple poles 752' from departure end of runway, 477 right of centerline, up to 110' AGL/520' MSL. Trees 43' from departure end of runway, 414' left of centerline, 100' AGL/407' MSL. Rwy 8, multiple trees and railroad beginning 400' from departure end of runway, 252' right of centerline, up to 100' AGL/469' MSL. Multiple trees and railroad

beginning 204' from departure end of runway, 241' left of centerline, up to 100' AGL/469' MSL, Rwv 19, multiple trees 64' from departure end of runway, 169' right of centerline, up to 100' AGL/679' MSL. Multiple trees. terrain, and buildings 22' from departure end of runway. 30' left of centerline, up to 100' AGL/479' MSL. Rwy 26, multiple trees, fence, and terrain beginning 458' from departure end of runway, 230' left of centerline, up to 100' AGL/839' MSL. Multiple posts, antenna, and terrain beginning 164' from departure end of runway. 255' right of centerline, up to 18' AGL/417' MSL.

#### RIVERTON. WY

RIVERTON RGNL

DEPARTURE PROCEDURE: Aircraft departing RIW R-280 CW R-170 climb on course. All others climb to 6600, then continue climb direct RIW VOR/DME to cross RIW VOR/DME at or above 7500 before proceeding on course.

#### **ROCK SPRINGS. WY**

ROCK SPRINGS-SWEETWATER COUNTY

DEPARTURE PROCEDURE: Climb direct OCS VORTAC, Aircraft departing OCS R-205 CW R-170 climb on course. All others climb in the OCS holding pattern (E, right turns, 260°inbound) to cross OCS VORTAC at or above 7300.

#### RONAN, MT RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMI IMS: Rwv 16 std w/min climb of

260' per NM to 9900 or 6100-3 for climb in visual conditions Rwv34, std w/min\_climb of 250' per NM to 9900 or 6100-3 in visual conditions DEPARTURE PROCEDURE: Rwv 16, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or

above 9000 before proceeding on course Rwv 34, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. NOTE: Rwv 16, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL, Rwv 34, building 158' from DER 370' left of centerline 40' AGL /3130' MSL Tree 1358' from DER 556' left of centerline 50' AGL/



#### ROSEBURG.OR ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: Rwv 16 std with a min\_climb of 642' per NM to 2000, or 1700-3 for climb in visual

conditions, Rwv 34, std. with a min, climb of 760' per

NM to 2000, or 1700-3 for climb in visual conditions DEPARTURE PROCEDURE: Rwv 16, climb direct

RBG VOR/DMF or climb in visual conditions to cross

Roseburg Airport southbound at or above 2200, then

MCA or MEA for route of flight. Rwv 34, climb via heading 342° to 4000, or climb in visual conditions to

cross Roseburg Airport northbound at or above 2200

and then via heading 342° to 4000. Then climbing left

have not reached the MCA or MEA for route of flight

NOTE: Rwv16, tower 1.56 NM from departure end of

runway, 2231' right of centerline, 50' AGL/1201' MSL.

of centerline, 21' AGL/980' MSL, tree 1.46 NM from

centerline, 45' AGL/964' MSL, pole 1.36 NM from

departure end of runway, 921' right of centerline, 75'

AGL/914' MSL, rod on airway beacon 1,29 NM from

departure end of runway, 409' right of centerline, 52'

obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557'

MSL. Rwv 34, tree 1.10 NM from departure end of

pole 4850' from departure end of runway, 56' left of

from departure end of runway, 508' left of runway

centerline, 21' AGL/780' MSL. Tree 5067' from

departure end of runway, 265' right of centerline, 43'

AGL/802' MSL, Tree 4260' from departure end of

centerline, 100' AGL/642' MSL. Tree 913' from

runway, 2003' left of runway centerline, 60' AGL/1179

MSL, Tree 5165' from departure end of runway, 1744' left

centerline, 15' AGL/894' MSL. Tree 4785' from depature

end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826'

left of runway centerline, 17' AGL/896' MSL. Tree 4079'

runway, 345' right of centerline, 42' AGL/761' MSL. Tree

1465' from departure end of runway 329' right of runway

departure end of runway, 217' right of runway centerline,

MSL. Hill 1065' from departure end of runway, 299' right

100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615'

of runway centerline 608' MSL. Trees beginning 60'

centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway

centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway

centerline, 15' AGL/560' MSL. Multiple signs beginning

792' from departure end of runway, 550' left of runway

centerline, up to 60' AGL/565' MSL. Bush 94' from

from departure end of runway, 117' left of runway

of centerline, 64' AGL/1023' MSL. Obstruction light on

AGL/891'MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL.

departure end of runway, 1298' right of runway

tree 1.47 NM from departure end of runway, 1560' right

turn direct RBG VOR/DMF to cross RBG VOR/DMF

at or above MCA or MEA for route of flight. Aircraft that

continue climb via RBG R-157 and right turn direct RBG

direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DMF to cross at or above the

MCNARY FIFLD

SALEM, OR

min, climb of 240' per NM to 800, Rwv 16, 600-2 or std.

with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or: Rwvs 31.34, turn right, Rwv 16, turn left, Rwv 13, climb

heading 130°. All aircraft climb direct TURNO LOM/ Int. Continue climb in holding (SE, left turns, 310° inhound) to cross TURNO LOM/INT at or above MEA for route of flight.

TAKE-OFF MINIMUMS: Rwv 13, 600-2 or std. with a

#### SALMON, ID LEMHL COUNTY

TAKE-OFF MINIMUMS: Rwy 17, NA. Rwy 35, 4300-5 or std, with a min, climb of 390' per NM to 8000. DEPARTURE PROCEDURE: Rwv 17. NA. Rwv 35. climb runway heading to 8000, then climbing left turn to 11.300 direct LKT VOR/DME before proceeding on course.

SANDPOINT.ID SANDPOINT

> TAKE-OFF MINIMUMS: Rwv 1, 4200-2 or std. with a min. climb of 520' per NM to 5800. Rwy 19, 2200-2 or std, with a min, climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: Rwy 1, climbing right turn to COE VOR/DME via heading 200° and COE R-002. Rwv 19. climbing left turn to COE VOR/DME via heading 140° and COE R-002. SARATOGA, WY

SHIVELY FIELD

SCAPPOOSE, OR

TAKE-OFF MINIMUMS: Rwv 23, 400-1 or std. with a min. climb of 220' per NM to 7400. DEPARTURE PROCEDURE: Rwv 5. turn left heading

280°. Rwy 23, turn right heading 340°. All aircraft climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

#### SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: Rwv 15, climbing left turn

direct BTG VORTAC. Rwy 33, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/ MCA for direction of flight. NOTE: Rwy 15, 158' MSL tree 470' from departure end of

runway, 499' right of centerline, Rwy 33, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

#### SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: Rwy 12, std. with a min. climb of 280' per NM to 3400.

VOR/DME

departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

9351



#### SEATTLE, WA BOEING FIELD/KING COUNTY INTL

#### TAKE-OFF MINIMUMS: Rwv 131 . 500-3 w/min\_climb of

232' per NM to 800, or 1000-21/2 for climb in visual conditions Rwv13R.std w/amin climb of 476' per NM to 900, or 500-3 w/a min, climb of 386' per NM to 900 or 1000-21/2 for climb in visual conditions Rwv 311. std w/amin\_climb of 386' per NM to 800\_or 300-11/2 w/

min, climb of 235' per NM to 800, or 1000-2 1/2 for climb in visual conditions Rwv 31R, std w/a min\_climb of 334' per NM to 900, or 400-13/4 w/ min, climb of 216' per NM to 900, or 1000-21/2 for climb in visual conditions DEPARTURE PROCEDURE: Rwys 131 /R. climbing right turn. Rwvs 31L/R, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA

VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. NOTES: Rwv 13L, multiple trees, towers, antennas and building beginning 402' from departure end of runway. 411' left of centerline, up to 127' AGL/479' MSL Rwv13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. Rwv 31L, multiple trees, fence, and building beginning 250' from departure end of runway. 253' left of centerline, up to 71' AGL/101' MSL, Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL, Rwv31R, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway,

#### SEATTLE-TACOMA INTL (SEA)

AGL/101'MSL.

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: Rwys 16L, 16C, 16R, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

389' right of centerline, up to 103' AGL/350' MSL.

departure end of runway, 99' left of centerline, up to 71'

Multiple obstruction lights beginning 214' from

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... ...climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight. NOTE: Rwy 16L, trees beginning 2908' from departure

end of runway, 1064' right of centerline, up to 100' AGL/ 476' MSL. Rwy 16C, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. Rwy 16R, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centelrine, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. Rwy 34L, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

#### SHELBY, MT SHELBY

#### TAKE-OFF MINIMUMS: Rwv 5, 200-11/4 or std. w/min.climb

of 212' per NM to 3700, or alternatively, w/std, takeoff minimums and a normal 2001/NM climb gradient takeoff must occur no later than 1300' prior to departure end of NOTE: Rwv 5, fence post 320' from departure end of runway

162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL. Rwv 11, truck on road 906' from departure end of runway 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway 26' right of centerline 75' AGL/ 3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway 174' left of centerline 22' AGL/ 3451'MSL

#### SHELTON, WA SANDERSON FIELD

#### TAKE-OFF MINIMUMS: Rwv 5, std. w/a min, climb of 312'

per NM to 4000, or 1500-21/2 for a climb in visual conditions. Rwy 23 std w/amin climb of 414' per NM to 4000 or 1500-21/2 for a climb in visual conditions.

DEPARTURE PROCEDURE: Rwv 5. climbing right turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000. Rwy 23, climbing left turn to intercept SEA R-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000

NOTE: Rwy 5, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL, Rwy 23. multiple trees beginning 52' from departure end of runway, 149'left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.



#### SHERIDAN WY SHERIDAN COUNTY

#### TAKE-OFF MINIMUMS: Rwv 5, 700-3 or std. w/min.

climb of 318' per NM to 5100, or. . . Rwv 14, 800-3 or std. w/min\_climb of 263' per NM to 5100\_or Rwv 23, 900-3 or std. w/min, climb of 348' per NM to 5100, or.

1400/3 for climb in visual conditions. Climb in visual conditions NA at night

DEPARTURE PROCEDURE: Rwv 5. climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence...Rwy 14, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County

Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... Rwv 23, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... Rwv 32, climb via heading

320° and SHR R-106 to SHR VORTAC, thence... ...climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight. NOTE: Rwy 5, multiple trees beginning 101' from

departure end of runway, 188' left of centerline, up to 80' AGL/3991'MSL. Rwy 23, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. Rwy 32, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSI

#### SIDNEY, MT

#### SIDNEY-RICHLAND MUNI

TAKE-OFF MINIMUMS: Rwv 28, 400-2 or std. with a min. climb of 260' per NM to 2300.

#### SNOHOMISH, WA HARVEY FIELD (S43)

ORIG 09127 (FAA)

TAKE-OFF MINIMUMS: Rwys 15R, 331 NA-obstacles

Rwy 15L, std, w/min, climb of 353' per NM to 1100, or 1200-21/2 for climb in visual conditions, Rwv 33R, std, w/ min\_climb of 475' per NM to 800\_or 1200-21/2 for climb in visual conditions. DEPARTURE PROCEDURE: Rwv 151 . climbing right

turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence Rwy 33R, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON I OM thence aircraft departing WATON LOM on bearings 150°

CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course NOTE: Rwv 15L, tree 81' from DER, 177' right of

centerline, 40' AGL/106'MSL, Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. Rwy 33R, powerline 139' from DER, 226' left of centerline. 40' AGL/56' MSL, Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.



#### SPOKANE, WA FELTS FIELD

TAKE-OFF MINIMUMS: Rwys 3L,3R, std. w/min. climb of 400' per NM to 3600, or 1600-3 for climb in visual conditions, Rwy 21L, std, w/min, climb of 360' per NM to 3100, or 1600-3 for climb in visual conditions. Rwy

21R. std. w/min climb of 375' per NM to 3100, or 1600-3 for climb in visual conditions DEPARTURE PROCEDURE: Rwvs 3L, 3R, climb to

3600, then climbing right turn heading 210° and GEG R-

050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400.

then via GEG R-050 to GEG VORTAC, Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course, Rwvs 21L, 21R. climb to 2800, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport southbound at or above 3400, then via GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA or MEA for route of flight, before proceeding on course. NOTE: Rwy 3L, multiple trees beginning 5000' from departure end of runway, 530' left of centerline, up to 104' AGL/2513'MSL. Tree 1854' from departure end of

runway, 773' right of centerline, 54' AGL/2030' MSL, tree 2365' from departure end of runway, 798' right of centerline, 61' AGL/2037' MSL. Rwy 3R, multiple trees beginning 5016' from departure end of runway, 1033' left of centerline, up to 104' AGL/2529' MSL, pole 2.5 NM from departure end of runway, 2059' left of centerline, 62' AGL/2454' MSL, hangar 92' from departure end of runway, 341' right of centerline, 5' AGL/1967' MSL, NDB 925' from departure end of runway, 270' right of centerline, 25' AGL/1987' MSL, multiple trees beginning 1870' from departure end of runway, 271' right of centerline, up to 128' AGL/3560' MSL. Rwy 21L, pole 316' from departure end of runway, 302' left of centerline,

33' AGL/1992' MSL, tree 926' from departure end of

runway, 362' left of centerline, 50' AGL/2006' MSL. building 1057' from departure end of runway, 158' left of centerline, 19' AGL/1975' MSL, building 1061' from departure end of runway, 110' left of centerline, 19' AGL/ 1975' MSL. Elevator 4080' from departure end of runway. 598' left of centerline, 134' AGL/2080' MSL. Rwy 21R, hangar 204' from departure end of runway, 496' left of centerline, 13' AGL/1969' MSL, pole 659' from departure end of runway, 404' left of centerline, 26' AGL/1979' MSL, building, 946' from departure end of runway, 230' left of centerline, 24' AGL/1973' MSL, pole 1399' from departure end of runway, 2' left of centerline, 33' AGL/

1982' MSL, elevator 2655' from departure end of runway, 1097' left of centerline, 134' AGL/2080' MSL, tree 189' from departure end of runway, 511' right of centerline, 46' AGL/1979' MSL, tree 480' from departure end of runway, 404' right of centerline, 43' AGL/1979' MSL, pole 1252' from departure end of runway, 55' right of centerline, 29' AGL/1975' MSL, pole 1427' from departure end of runway, 13' right of centerline, 33' AGL/1982' MSL.

#### SPOKANE INTL

DEPARTURE PROCEDURE: All aircraft climb direct GEG VORTAC. Continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeastbound V120-448, 5200; eastbound V2, 5200. southeast thru westbound climb on course.

#### STEVENSVILLE, MT STEVENSVILLE

#### TAKE-OFF MINIMUMS: Rwv 12, do not exceed 210 knots.

until established on MSO R-163. Rwv 30, do not exceed 210 knots until established on MSO R-160 DEPARTURE PROCEDURE: Rwv 12, climbing right turn via heading 335 and MSO R-163 to MSO DMF climb in MSQ VQR/DMF holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. Rwy 30, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn. 340° inhound) to 13000' before proceeding on course.

#### SUNRIVER, OR SUNRIVER

TAKE-OFF MINIMUMS: Rwv 18 300-1 or std with a min climb of 360' per NM to 4400. Rwv 36, 600-2 or std. with a min, climb of 240' per NM to 4900. DEPARTURE PROCEDURE: Rwv 18. climb runwav heading to 7000 then climbing left turn direct DSD VORTAC Rwv 36, climb direct to DSD VORTAC Then

#### TACOMA, WA

### TACOMA NARROWS

all aircraft climb on course.

TAKE-OFF MINIMUMS: Rwv 35, 400-1 or std, with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: Rwv 17, turn right, climb via heading 230° to intercept QLM R-009 then direct OLM VORTAC, Rwv 35, turn left, climb via heading 270° to intercent SEA R-230 then direct CARRO INT Continue climb in holding (SW, right turns, 047° inbound)

#### THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

to MEA or assigned altitude for route of flight.

TAKE-OFF MINIMUMS: Rwv 2. CAT A.B 1100-2 or std. with a min, climb of 350' per NM to 1500, CAT C.D 2600-3 or std. with a min. climb of 475' per NM to 3100. Rwv 7, 900-3 or std. with a min. climb of 330' per NM to 1200, Rwv 12, 1400-3 or std. with a min, climb of 500' per NM to 2000. Rwy 20, 1800-3 or std. with a min. climb of 470' per NM to 2200. Rwy 25, NA. Rwy 30, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: Rwvs 2.7. climbing right turn heading 120°. Rwy 12, climb via runway heading. Rwvs 20. 30, climbing left turn heading 120°. aircraft intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

#### TILLAMOOK, OR

#### TILLAMOOK

TAKE-OFF MINIMUMS: Rwys 1, 13, 19, NA. Rwy 31, 2000-3 or std. with a min. climb of 350' per NM to 4500. DEPARTURE PROCEDURE: Rwys 1, 13, 19, NA. Rwy 31. use FETUJ RNAV DEPARTURE.

9351



#### TWIN FALLS, ID JOSLIN FIELD-MAGIC VALLEY RGNI

TAKE-OFF MINIMUMS: Rwv 12 NA

DEPARTURE PROCEDURE: Aircraft departing on

TWF R-240 CW R-080 climb on course All others climb runway heading 6000 then climbing turn direct TWF VORTAC Climb in holding pattern (NW\_right

turns 113° inbound) to MCA or MEA as appropriate for direction of flight.

#### VANCOUVER. WA PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: Rwv 8. std. w/min. climb of 358'

per NM to 600, or 500-3 w/min, climb of 201 per NM to 600, or 900-2½ for climb in visual conditions. Rwy 26. 600-3 or 900-21/2 for climb in visual conditions.

DEPARTURE PROCEDURE: Rwv 8. climb heading 079° to 500 then climbing left turn direct BTG VORTAC

thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSI, then proceed on

BTG VORTAC R-179 to BTG VORTAC, thence... Rwv 26. climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence, ... or for climb in visual conditions: cross Pearson Field at or above 800 MSL

then proceed on BTG VORTAC R-179 to BTG VORTAC, thence... ... continue climb in BTG VORTAC holding pattern (hold

northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight. NOTE: Rwv 8, tree 1.4 NM from departure end of runway. 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline. 100' AGL/401' MSL. Tree 2 NM from departure end of

runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL, Rwy 26, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL.

Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

#### WALLA WALLA. WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: Rwys 2,7, 20,25,34, turn left, Rwy 16, turn right, All aircraft climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight. NOTE: Rwv 16, antenna 365' from departure end of

runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. Rwy 20, light 666' from departure end of runway, 640' left of centerline, 1170' MSL, Rwy 34. terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

### WEISER.ID WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: Rwv 12, std. w/min, climb of

310' per NM to 3900 or 2400-3 for climb in visual conditions, Rwv 30, std. w/min, climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions DEPARTURE PROCEDURE: Rwv 12, climb heading 121° to 3900 before proceeding on course. Rwv 30. climb heading 301° to 4000 before proceeding on course for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: Rwv 12, tree 248' from departure end of runway. 443' right of centerline, 100' AGL/2184' MSL, Rwy 30. tree 1907' from departure end of runway 769' right of centerline, 100' AGL/2174' MSL.

#### WENATCHEE, WA PANGBORNMEMORIAL

TAKE-OFF MINIMUMS: Rwv7. NA. Rwv12. 1500-2 or

std. with a min. climb of 510' per NM to 2900. 25.30 CATA B 1600-2 or std with a min\_climb of 360 per NM to 3100. CAT C.D 5500-3 or std. with a min. climb of 570' per NM to 7200. DEPARTURE PROCEDURE: Rwv 12. climb runwav heading. Rwys 25, 30, climbing left turn. All aircraft

climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CW R-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E.right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CW R-200 7400: R-201 CW R-009, 8200.

#### WEST YELLOWSTONE, MT YELLOWSTONE

TAKE-OFF MINIMUMS: Rwv 19, 2200-2 or std. with a min, climb of 245' per NM to 8900, FAR 135 AUTH: Rwv 1. 1/2 mile. DEPARTURE PROCEDURE: Rwv 1. turn right.

aircraft climb direct TARGY LOM, Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

#### WHEATLAND, WY PHIFFR AIRFIFI D

DEPARTURE PROCEDURE: Rwy 8, climbing left turn to 9000 via heading 030° to intercept IIP VOR/DME R-140 to JEZZY Int, thence... Rwy 26, climbing right turn to

9000 via heading 360° and GYZ NDB course 051° to JEZZY INT, thence... ...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: Rwy 8, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL. Rwy 26, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL.

Multiple trees, buildings, poles/lights, roads w/vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.



TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES  $\overline{\mathbf{V}}$ 

## WHIDBEY ISLAND NAS (AULT FIELD)

(NUW)

#### Diverse departures not authorized

MILITARY DEPARTURE PROCEDURE: Rwv 7:

Minimum climb of 430'/NM until 600. Climbing left turn

to 2000, intercept NUW R-067, expect radar vectors to

ioin assigned route. Rwv 14: Climbing left turn to 2000. intercept NUW R-128, expect radar vectors to join assigned route Rwy 25: Climb to 2000 via heading 249°, expect radar vectors to join assigned route, Rwv

32: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. ALL RWYS: If vectors are not

received by 10 DME of NUW TACAN, climb to 3000. intercent the NUW 11 DMF ARC to join assigned route. CIVIL DEPARTURE PROCEDURE: Rwv 7:

Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join

assigned route. Rwv 14: Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. Rwy 25: Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. Rwv 32: Climb to 2000 via heading 317°.

expect radar vectors to join assigned route. ALL RWYS: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route, TAKEOFF OBSTACLES: Rwv 7: Terrain 7813' from DER 2469' left of centerline

276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL, Trees, 5239' from DER, 6257' left of centerline, 495' MSL, Trees, 8561' from DER, 3685' left of centerline, 426' MSL, Trees, 12,561' from DER.

4814' right of centerline, 462' MSL, Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15.361' from DER, 4015' right of centerline, 521' MSL.

#### WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: Rwys 4, 10, 22, 28, NA. Rwv 16, 300-2 or std, with a min, climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: All aircraft climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others

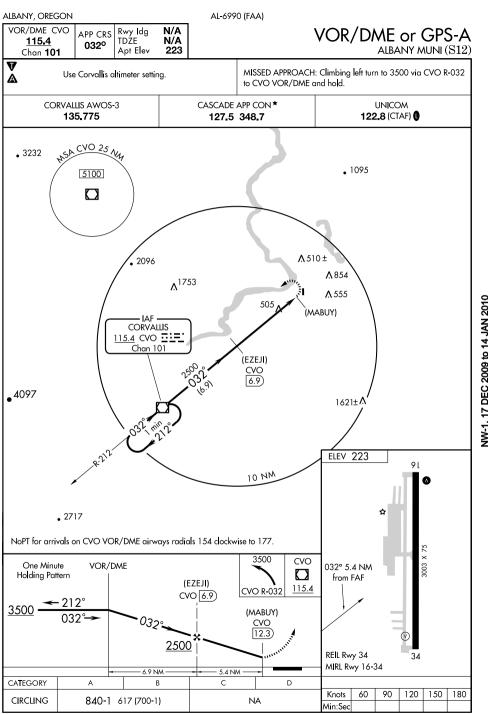
continue climb in RLY VOR/DME holding pattern (N. right turns, 159° inbound) to cross RLY VOR/DME at orabove 7000.

#### YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: Rwy 4, NA. Rwy 9, 800-4 or std. with a min. climb of 300' per NM to 5000. Rwys 22,27, 2500-3 or std. with a min. climb of 300' per NM to 5200

DEPARTURE PROCEDURE: Rwy 4, NA. Rwys 9,22,27, Use ZILLA DEPARTURE PROCEDURE.



(AST1 .AST) 07298 ASTORIA ONE DEPARTURE (OBSTACLE) SL-24 (FAA)

ASTORIA RGNL (AST) ASTORIA, OREGON

NW-1 17 DEC 2009 to 14 JAN 2010

1500 **ASTORIA** 114.0 AST :--N46°09.70′ W123°52.82 800

NOTE: TAKE-OFF MINIMUMS: Rwy 8, 800-3 or standard with minimum climb of 320' per NM to 900'. Rwy 13, 700-2 or standard with minimum climb of 350' per NM to 800'. Rwys 26,31, Standard.

NOTE: Chart not to scale.

SEATTLE CENTER 124.2 317.6 McMINNVILLE RADIO

122.3



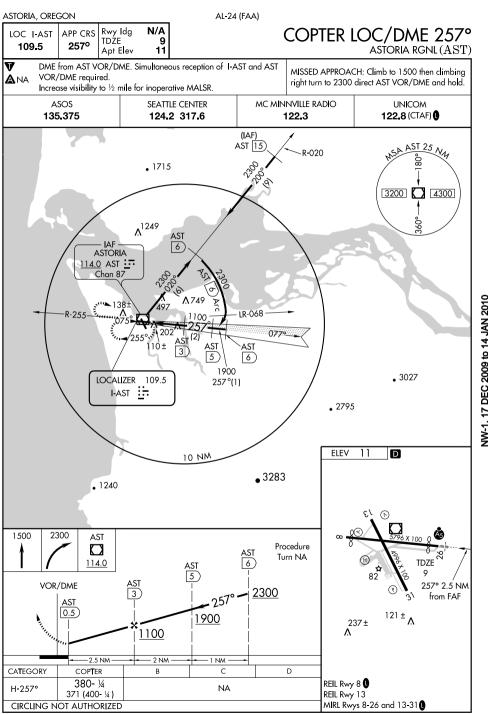
## DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8,31: Turn left. Thence....

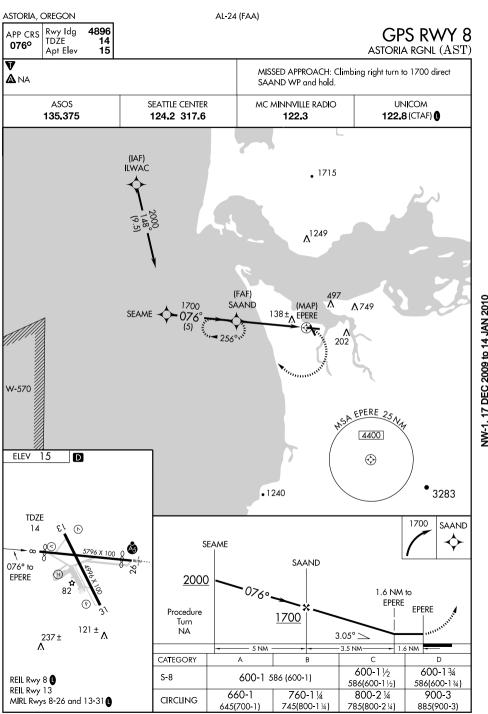
TAKE-OFF RUNWAY 26: Turn right. Thence....

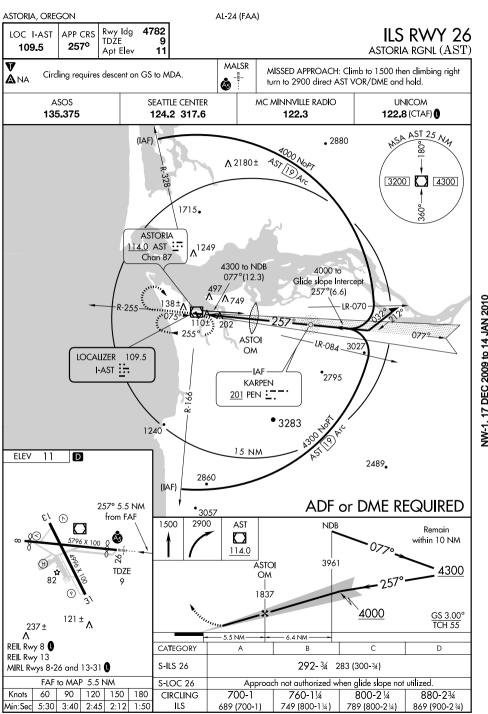
TAKE-OFF RUNWAY 13: Climb runway heading to 800 then climbing right turn. Thence....

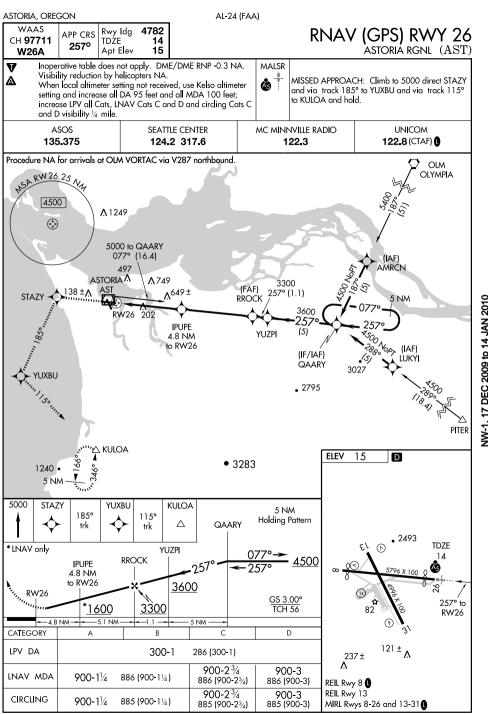
 $\dots$  Aircraft departing northwest bound climb via AST R-290 on course. All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

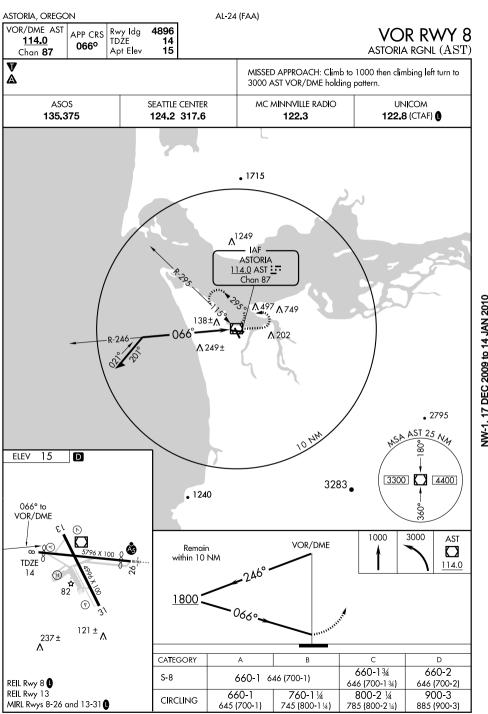


ASTORIA, OREGON AL-24 (FAA) VOR/DME AST N/A APP CRS Rwy Idg COPTER VOR/DME or GPS 066° 114.0 TDŹE N/A 066° ASTORIA RGNL(AST) Apt Elev 11 Chan 87 V MISSED APPROACH: Climbing right turn to 2000 in AST VOR/DME holding pattern. ASOS SEATTLE CENTER MC MINNVILLE RADIO UNICOM 135.375 124.2 317.6 122.3 122.8 (CTAF) 0 • 1*7*1*5* SA AST 25 M (IAF) **ILWAC** AST [16) 3200 ( ) 4300 Λ1249 (REDMY) AST 7 ·IAF -**ASTORIA** 114.0 AST :--P. 290. \_\_ Chan 87 NW-1, 17 DEC 2009 to 14, IAN 2010 **∧**497 **∧** 749 (REKFI) (MAVRY) AST 3 FISKK 700 AST 7 066 ~~246°.√\$ R-246 (4)202 LR-237 R-225 2000 2000 225° (7) AST 7) Arc 2000 (REHKY) AST 7 (5) ELEV 11 D 7 NM IAF TUŇŇA 066° 2.6 NM N46 °04.44'-W124° 08.24' 114.0 AST 225.0° -12.0 from FAF FISKK 2000 AST AST 7 (H) 114.0 (REKFI) VOR/DME AST 3 1500 (MAVRY) 0<sub>66°</sub> AST 0.2) Procedure Turn <sup>121 ±</sup> ∧ NA 700 237± 2.6 NM -4 NM CATEGORY D COPTER REIL Rwy 8 ( 500-1/2 H-066° NA REIL Rwy 13 489 (500-1/2) MIRL Rwys 8-26 and 13-31 CIRCLING NOT AUTHORIZED



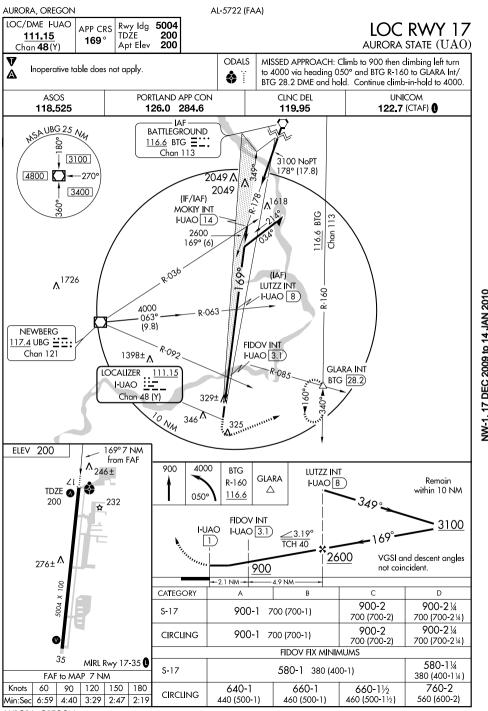


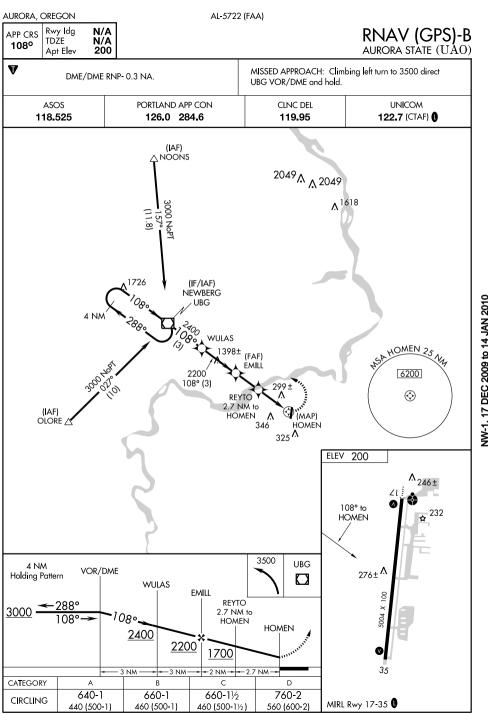


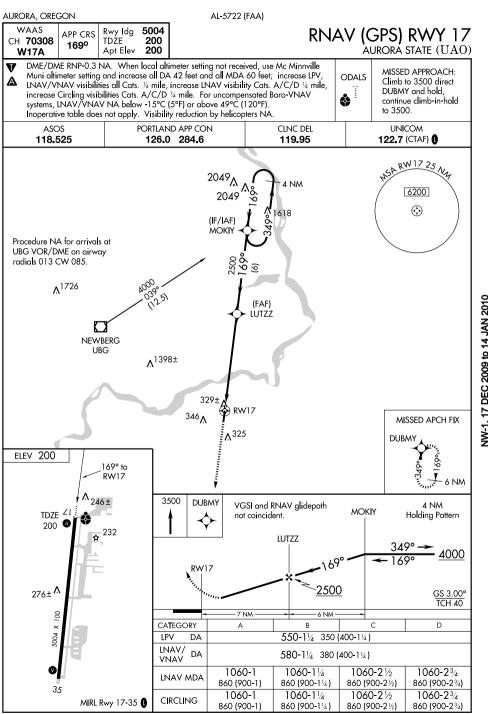


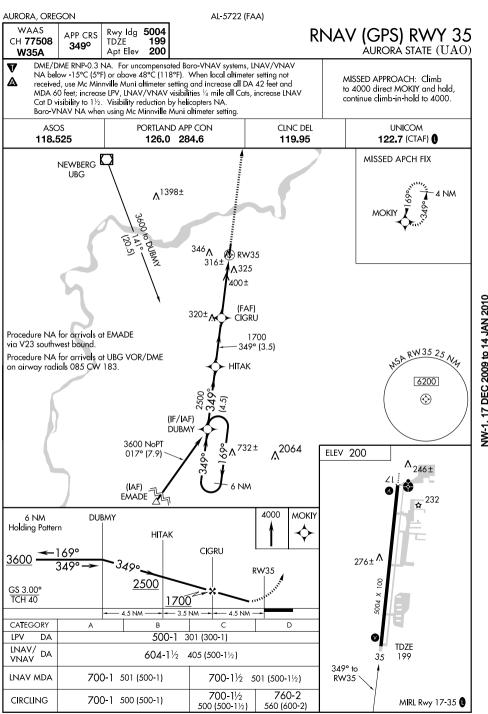
(HELNS.HELNS4) 03135 HELNS FOUR ARRIVAL PORTLAND, OREGON ST-330 (FAA) PORTLAND APP CON 124.35 299.2 PORTLAND INTL ATIS 128.35 269.9 SEATTLE PORTLAND-HILLSBORO ATIS 116.8 SEA :-127.65 Chan 115 N47°26.12′-W122°18.58′ L-1, H-1 10000 19700 161° (71) **HELNS** N46°15.42′ W122°18.58′ **KRATR BATTLE GROUND** N46° 05.39′ - W122° 24.17′ 11<u>6.6</u> BTG <u>=∵:</u> NOTE: Maintain the last assigned altitude. Upon Chan 113 receipt of "Descend via the HELNS4": . . . N45°44.87′-W122°35.49 PROP/TURBOPROP: Cross at and maintain 10,000'. TURBOJET: Cross at and maintain 12,000' at 300 K IAS or less. 280° 1100. **PORTLAND** INTL 6 PORTLAND-PORTLAND-TROUTDALE HILLSBORO C **AURORA** STATE NOTE: DME and RADAR required. NOTE: Chart not to scale. SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence.... .... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence.... LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course. LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

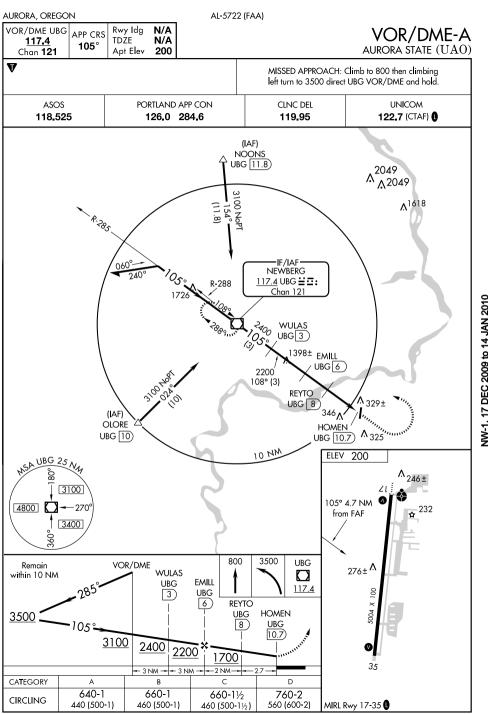
NW-1 17 DEC 2009 to 14 JAN 2010



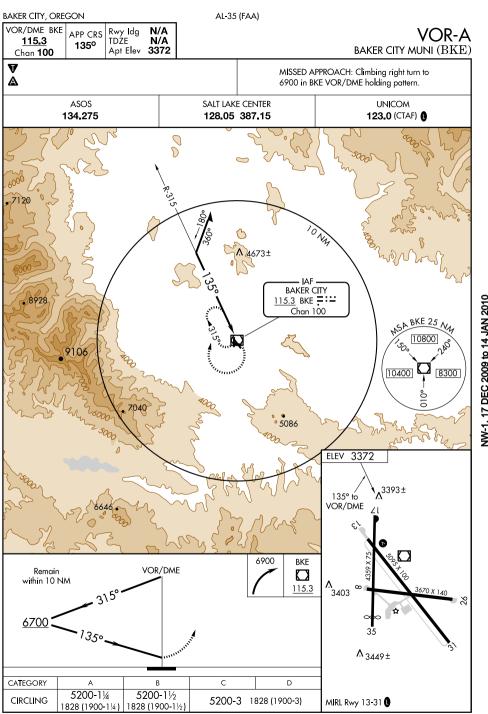








BAKER CITY, OREGON AL-35 (FAA) Rwy Idg 5095 RNAV (GPS) RWY 13 APP CRS TDŹE 3370 125° BAKER CITY MUNI (BKE) Apt Elev 3372 V MISSED APPROACH: Climbing left turn DME/DME RNP- 0.3 NA. Α to 9000 direct FEPOL and hold. ASOS UNICOM SALT LAKE CENTER 134.275 128.05 387.15 123.0 (CTAF) ( (IAF) ACED (IAF) FEPOL SITOC NW-1 17 DEC 2009 to 14 JAN 2010 RW 13 25 Ny TAROY 6 NM to ZASKA 0800 BHIPPA .8 NM to **(** STOC (IAF) (FAF) 11000 ŻASKA 0090 (2,8) SOKNE 3.1 NM to 8928 **RW13** ELEV 3372 3469± 125° to RW13 RW13 9106 ۸<sup>3393±</sup> 9000 **FEPOL** SITOC TAROY **TDZE** 6 NM to 3370 ZASKA 8700 ZASKA **SOKNE** 1250 3.1 NM to **∧** 3403 **RW13** 3670 X 140 7700 3.06° Procedure 2 TCH 55 **RW13** Turn 5800 NA 4420 6.1 NM -4.2 NM -- 3.1 NM -6 NM CATEGORY Α ∧<sub>3449±</sub> 4080-2 4080-21/4 LNAV MDA 4080-1 710 (800-1) 710 (800-2) 710 (800-21/4) 4080-2 4220-23/4 CIRCLING 4080-1 708 (800-1) MIRL Rwy 13-31 848 (900-234) 708 (800-2)



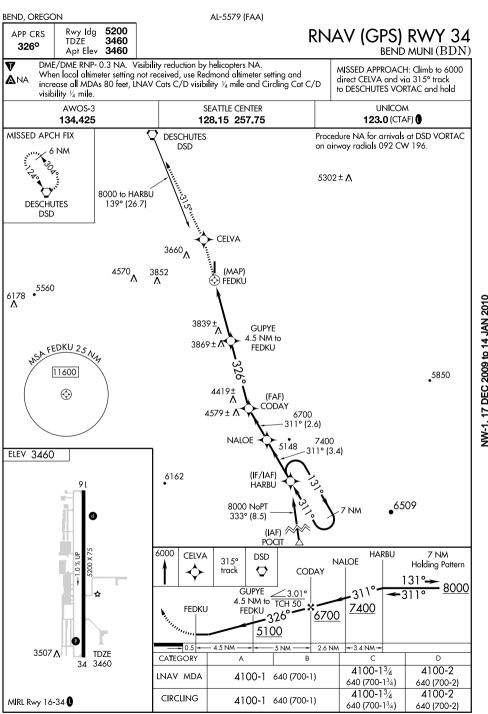
BAKER CITY, OREGON AL-35 (FAA) VOR/DME BKE 5095 Rwy Idg VOR/DME RWY 13 APP CRS 115.3 TDŹE 3370 118° BAKER CITY MUNI (BKE) Apt Elev 3373 Chan **100** MISSED APPROACH: Climb to 4000 then climbing left turn to A 10500 via BKE R-325 to WOLIP and hold. **ASOS** SALT LAKE CENTER UNICOM 134,275 128.05 387.15 123.0 (CTAF) 1 MSA BKE 25 10800 (IAF) WOLIP BKE 25) 10400 8300 BKE 25 GUCEV BKE 25 HULEX BKE 20) NW-1, 17 DEC 2009 to 14, IAN 2010 FIDAM BKE [12] 120 (IAF) (A) 00 JELTI **BOYBA** BKE 25 BKE 8 8000 to BOYBA **ELEV** 3373 AKICI 298° (8) BKE 3 **CTBRT** Λ<sup>3393±</sup> BKE 0.2 BAKER CITY 115.3 BKE =::: 118° 7.8 NM Chan 100 from FAF 3441± 9106 €/ **TDZE** BOYBA 4000 10500 3370 Remain WOLIP BKE 8 within 10 NM Δ **BKE** 298° R-325 3670 X 140 **∧** 3403 FIDAM AKICI 8000 BKE 3 BKE 12 1180\_ **CTBRT** 3.49° BKE 0.2 TCH 55 6300 VGSI and descent angles 4440 not coincident - 2.8 NM -4 NM -- 5 NM Λ<sub>3449±</sub> CATEGORY Α 4000-13/4 4000-2 S-13 4000-1 630 (700-1) 630 (700-134) 630 (700-2) 4000-1 4000-1 4000-13/4 4220-23/4 MIRL Rwy 13-31 CIRCLING 627 (700-1) 627 (700-1) 627 (700-134) 847 (900-234)

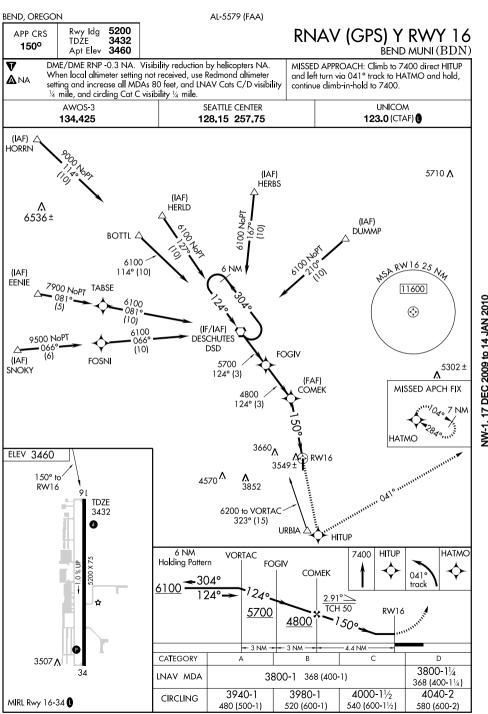
BEND MUNI (BDN) BEND ONE DEPARTURE (OBSTACLE) BEND, OREGON SEATTLE CENTER 128.15 257.75 CTAF 123.0 **DESCHUTES** 117.6 DSD **...**: Chan 123 N44°15.17′ W121°18.21′ L-13. H-1 TAKE-OFF MINIMUMS Rwys 16, 34: Standard. TAKE-OFF OBSTACLE NOTES Rwy 16: Trees beginning 75' from DER, 412' left of centerline, up to 43' AGL/3572' MSL. Trees beginning 432' from DER, 5' right of centerline, up to 37' AGL/3541' MSL. Terrain beginning 27' from DER, 197' right of centerline, up to 3469' MSL. Road 1' from DER, 414' left of centerline, 17' AGL/3466' MSL. Rwy 34: Trees beginning 306' from DER, 178' left of centerline, up to 25' AGL/3436' MSL. Road beginning 460' from DER, 414' left of centerline, up to 17' AGL/3425' MSL. Bush 94' from DER, 443' left of centerline, 4' AGL/3407' MSL. Terrain beginning 1' from DER, 147' left of centerline, up to 3408' MSL. Trees beginning 52' from DER, 252' right of centerline, up to 39' AGL/3429' MSL. NOTE: Chart not to scale DEPARTURE ROUTE DESCRIPTION V TAKE-OFF RUNWAY 16: Climbing left turn to intercept DSD R-130 to DSD VORTAC, Thence . . . . TAKE-OFF RUNWAY 34: Climbing left turn to intercept the DSD R-130 to DSD VORTAC, Thence . . . . . . . . Climb in DSD VORTAC holding pattern to cross DSD VORTAC at or above the MEA/MCA for the route of flight.

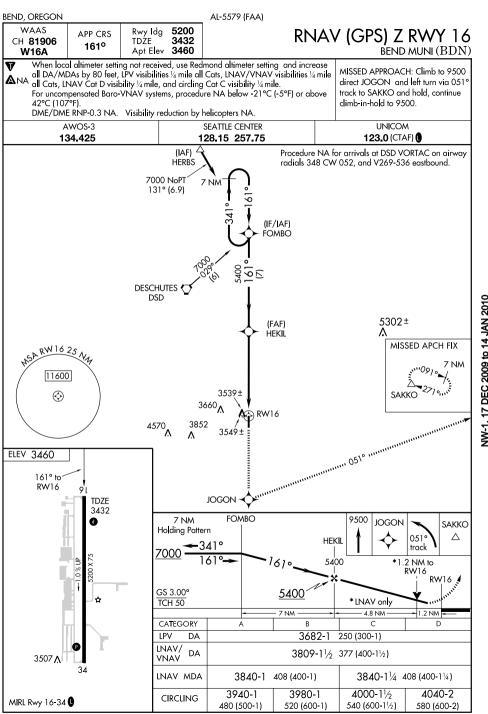
NW-1, 17 DEC 2009 to 14 JAN 2010

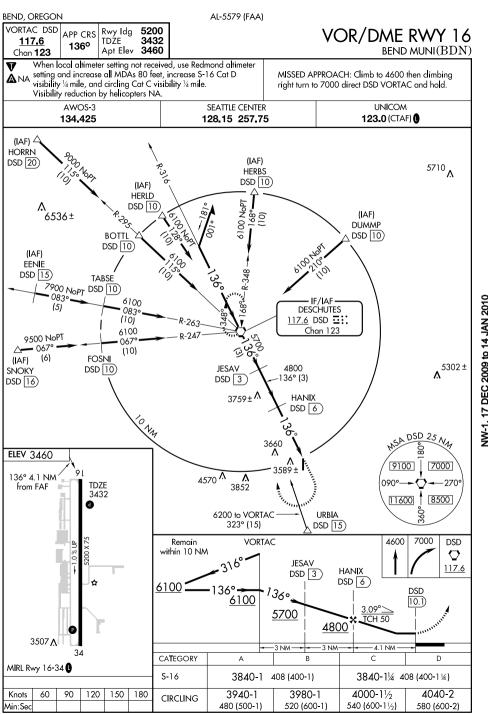
SL-5579 (FAA)

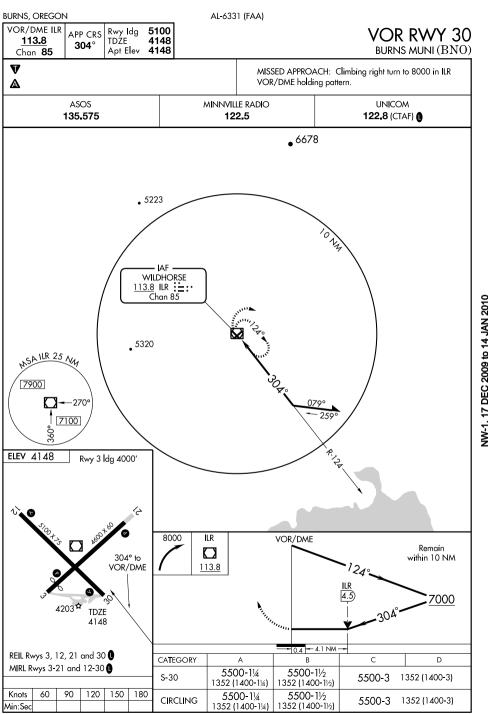
(BDN1.BDN) 09183











NW-1, 17 DEC 2009 to 14 JAN 2010

**CORVALLIS ONE DEPARTURE** 

CASCADE DEP CON ★ 127.5 348.7 CTAF 123.0 SEATTLE CENTER 125.8

CORVALLIS MUNI (CVO)

CORVAILIS OREGON AWOS-3 135.775

N44°29.97′-W123° 17.62′ R-081 \_

SL-782 (FAA)

## Rwys 17/35, standard.

TAKEOFF MINIMUMS

(CVO1.CVO) 05188

CORVALLIS

Chan 101

Rwy 27, standard with minimum climb of 310' per NM to 2300.

Rwy 9, 200-1 or standard with minimum climb of 245' per NM to 500.

## TAKEOFF OBSTACLE NOTES

Rwy 9: Multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL.

Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. Rwy 27: OL on GS 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35: Multiple trees beginning 470' from departure end of runway, 544' left of centerline, up to 36' AGL/276' MSL.

Tree 2.3 NM from departure end of runway, 1976' left of centerline, 128' AGL/607' MSL.

NOTE: Chart not to scale.



## V DEPARTURE ROUTE DESCRIPTION

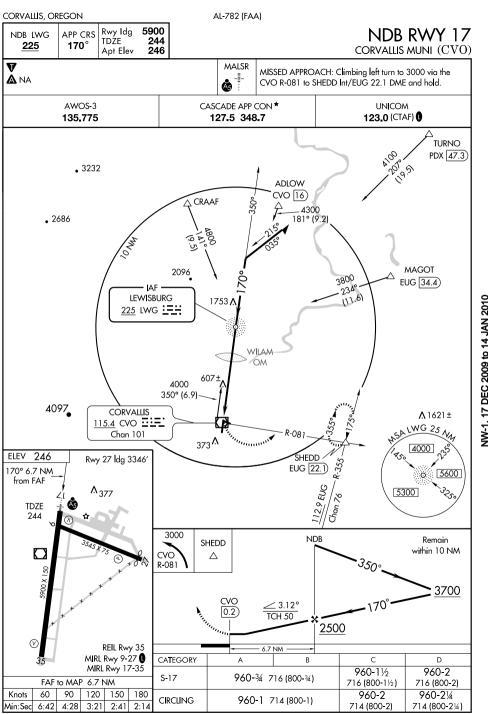
TAKE-OFF RUNWAY 9: Climbing left turn to 3000 via CVO R-081, thence. . . .

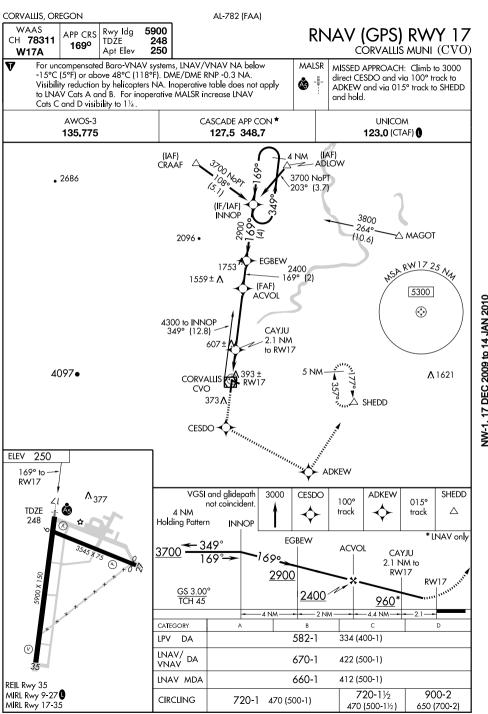
TAKE-OFF RUNWAY 17: Climbing left turn to 3000 via heading 020° and CVO R-081, thence...

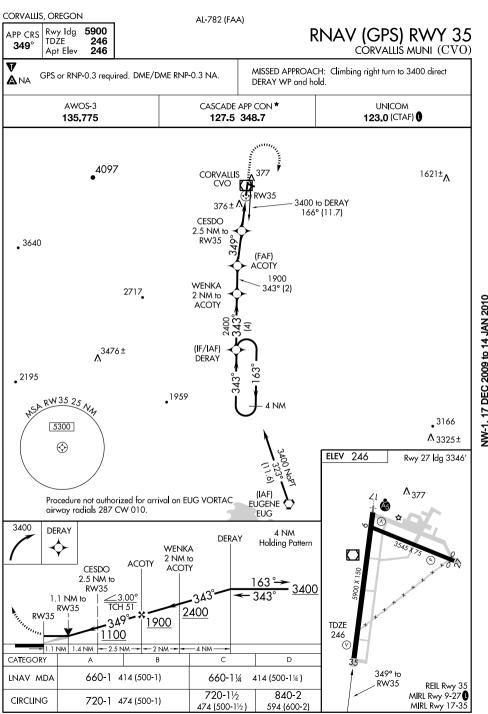
TAKE-OFF RUNWAYS 27 and 35: Climbing right turn to 3000 via heading 150° and

CVO R-081, thence. . . . .... climbing right turn to 4000 direct CVO VOR/DME. Continue climb on course to MEA for

route of flight. LOST COMMUNICATIONS: If not contact with ATC upon reaching 3000', continue climb to assigned altitude direct CVO VOR/DME. Thence via assigned route of flight.



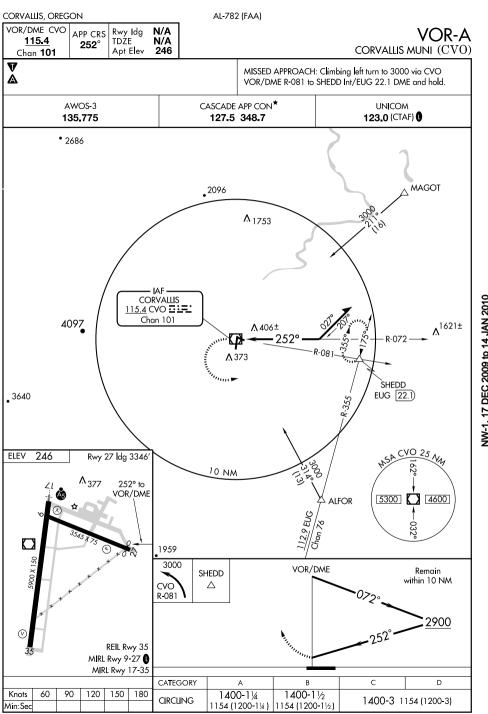


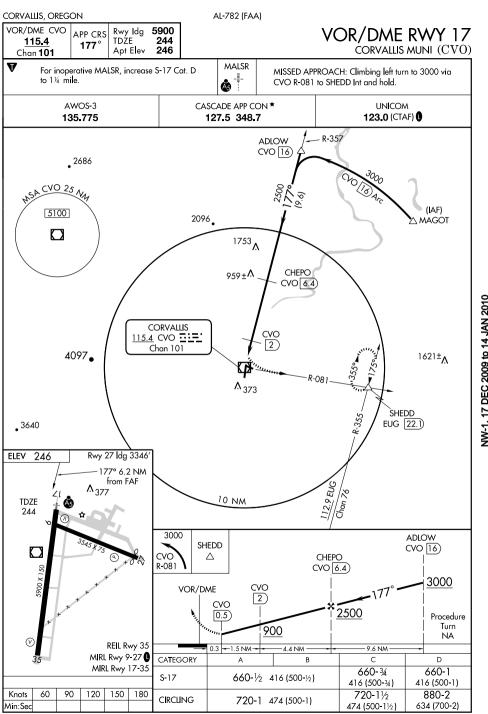


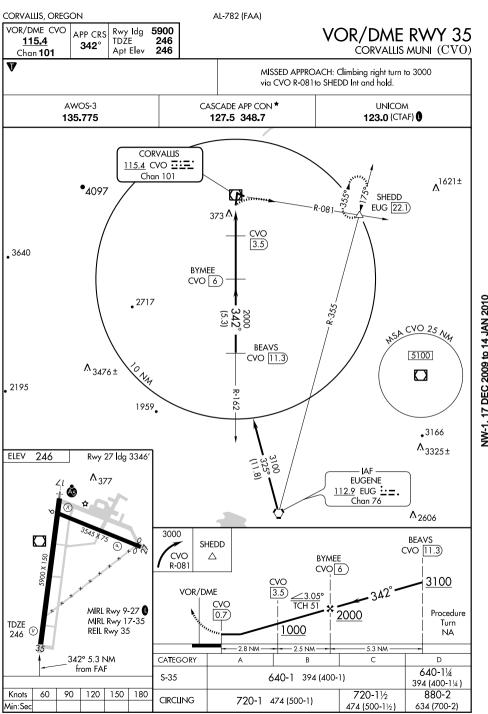
(SHEDD1.SHEDD) 05188 SL-782 (FAA) CORVALLIS MUNI (CVO) SHEDD ONE DEPARTURE CORVALLIS, OREGON AWOS-3 135.775 CASCADE DEP CON ★ 127.5 348.7 CTAF 123.0 CORVALLIS SEATTLE CENTER 115.4 CVO **ःः** 125.8 Chan 101 N44°29.97′-W123° 17.62′ R-081 0810 SHEDD N44°28.55' 9 W123°05.29′ TAKEOFF MINUMUMS Rwy 9, 200-1 or standard with minimum obstacle climb of NW-1 17 DEC 2009 to 14 JAN 2010 245' per NM to 500, ATC climb of 332' per NM to 3000. Rwys 17/35, standard with minimum ATC climb of 312' per NM to 3000. EUGENE Rwy 27, standard with minimum obstacle climb of 310' per NM to 2300, 112.9 EUG :--. ATC climb of 312' per NM to 3000. TAKEOFF OBSTACLE NOTES Rwy 9: Multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. Rwy 27: OL on GS 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL. Rwy 35: Multiple trees beginning 470' from departure end of runway, 544' left of centerline, up to 36' AGL/276' MSL. Tree 2.3 NM from departure end of runway, 1976' left of centerline, 128' AGL/607' MSL. NOTE: Chart not to scale. V DEPARTURE ROUTE DESCRIPTION TAKE-OFF RUNWAY 9: Climbing left turn to 3000 via CVO R-081 to SHEDD INT, thence. . . . TAKE-OFF RUNWAY 17: Climbing left turn to 3000 via heading 020° and CVO R-081 to SHEDD INT, thence. . . . TAKE-OFF RUNWAYS 27 and 35: Climbing right turn to 3000 via heading 150° and CVO R-081 to SHEDD INT, thence. . . . . . . .via assigned route/clearance.

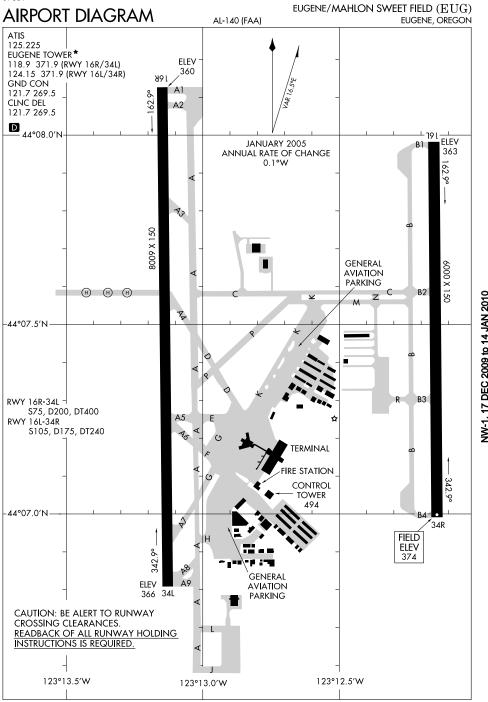
LOST COMMUNICATIONS: If not contact with ATC upon reaching 3000', continue climb to

assigned altitude direct CVO VOR/DME. Thence via assigned route of flight.







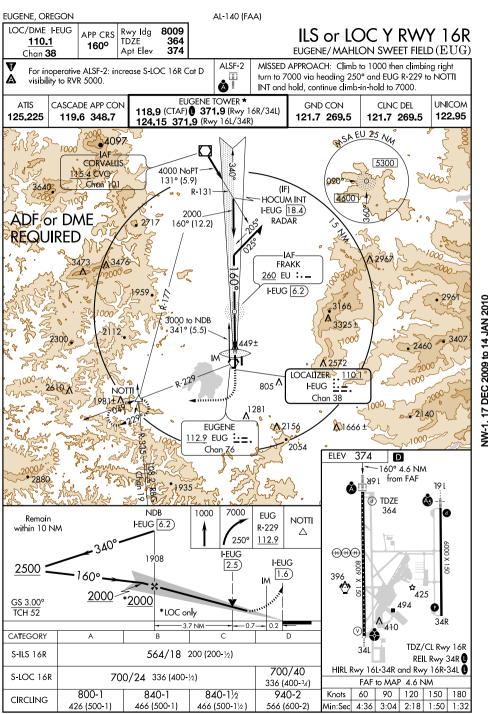


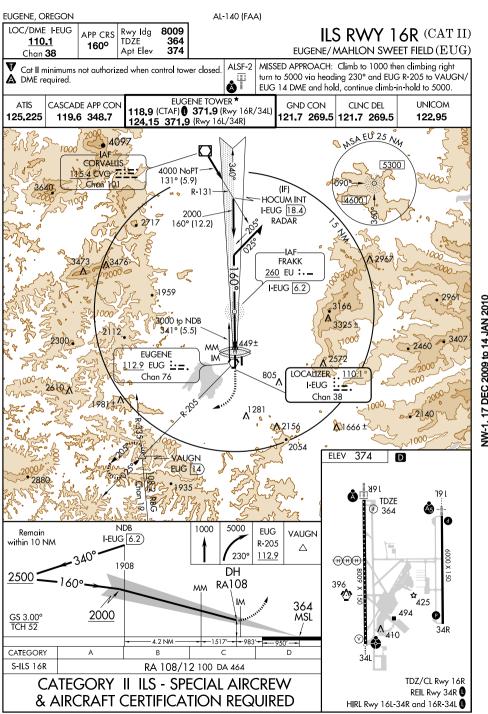
(EUG7.EUG) 07298 EUGENE/MAHLON SWEET FIELD (EUG) **EUGENE SEVEN DEPARTURE** SL-140 (FAA) EUGENE, OREGON ATIS 125.225 GND CON BATTLEGROUND 121.7 269.5 11<u>6.6</u> BTG =:: **EUGENE TOWER \*** Chan 113 118.9 (CTAF) 371.9 (Rwy 16R-34L) N45°44.87' - W122°35.49' 124.15 371.9 (Rwy 16L-34R) L-1. H-1 CASCADE DEP CON 119.6 348.7 NEWBERG CORVALLIS 115.4 CVO **...**= 117.4 UBG **ΞΞ:** Chan 121 <u>Chan</u> 101 N45°21.19′ - W122°58.69 N44°29.97' **NEWPORT** 117.1 ONP =-W123° 17.62' L-1, H-1 L-1 Chan 118 T 340° N44°34.52′ - W124°03.64′ L-1. H-1 TAKE-OFF OBSTACLE NOTES **EUGENE** Rwy 16R: Tree 1992' from DER, 832' left of centerline, <u>112.9</u> EUG 📴. 50' AGL/419' MSL. Chan 76 Rwy 16L: Multiple trees and power poles beginning N44°07.25′ - W123°13.37′ 872' from DER, 35' right of centerline, up to L-1, H-1 50' AGL/437' MSL. Multiple trees and power poles beginning 890' from DER, 77' left of centerline, up DESCHUTES to 50' AGL/433' MSL. 117.6 DSD **...**: Rwy 34R: Multiple trees beginning 2869' from Chan 123 NW-1, 17 DEC 2009 to 14 JAN 2010 DER, 186' right of centerline, up to N44°15.17′ - W121°18.21′ 50' AGL/447'MSL. L-13. H-1 Tree 2535' from DER, 652' left of centerline, 50' AGL/428' MSL. **ROSEBURG** 108.2 RBG :::: NORTH BEND Chan 19 112.1 OTH **Ξ..** N43°10.95′ - W123°21.13′ Chan 58 N43°24.93′ - W124°10.11′ ROGUE VALLEY 113.<u>6</u> OED 🚾 ... Chan 83 TAKE-OFF MINIMUMS KLAMATH FALLS N42°28.77′ - W122°54.78′ 115.9 LMT = Rwy 16L/16R: Standard with minimum climb of L-2. H-3 Chan 106 305' per NM to 6000. N42°09.19' Rwy 34L/34R: Standard with minimum climb of W121°43.65' L-2, H-3 320' per NM to 6000. NOTE: Aircraft taxiing beyond Rwy 16R departure end 500' left of centerline. NOTE: Chart not to scale. DEPARTURE ROUTE DESCRIPTION TAKE-OFF RUNWAYS 16L and 16R: Climb via heading 160° (or ATC assigned heading) for vectors to assigned route/fix . . . . TAKE-OFF RUNWAYS 34L and 34R: Climb via heading 340° (or ATC assigned heading) for vectors to assigned route/fix . . . . . maintain 9000 or assigned altitude, expect filed altitude/flight level five minutes after departure. LOST COMMUNICATIONS: If not in contact with ATC after reaching 3000', continue climb to assigned altitude direct EUG VORTAC, climb in EUG VORTAC holding pattern (hold N, RT, 175° inbound) to cross EUG VORTAC at or above MEA before proceeding enroute.

NW-1, 17 DEC 2009 to 14 JAN 2010

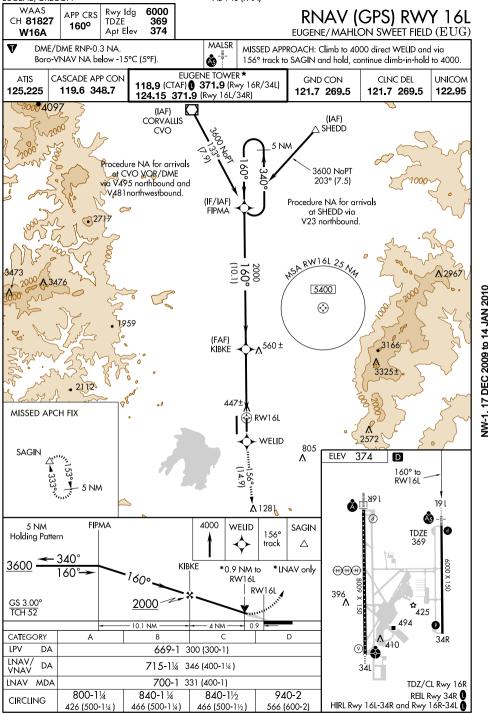
EUGENE, OREGON AL-140 (FAA) LOC/DME I-ADE Rwy Idg 6000 ILS or LOC/DME RWY 16L APP CRS 111.75 TDŹE 369 160° FUGENE/MAHLON SWEET FIELD (EUG) 374 Chan 54 (Y) Apt Elev MALSR If local altimeter setting not received, use Corvallis altimeter MISSED APPROACH: Climb to 5200 via heading Α setting and increase all DAs 70 feet, and all MDAs 80 feet. 160° and EUG VORTAC R-152 to SAGIN/EUG VDP NA when using Corvallis altimeter setting. å٩ 16 DME and hold, continue climb-in-hold to 5200. EUGENE TOWER \* ATIS CASCADE APP CON UNICOM GND CON CLNC DEL 118.9 (CTAF) 1 371.9 (Rwy 16R/34L) 125.225 119.6 348.7 121.7 269.5 121.7 269.5 122.95 124.15 371.9 (Rwy 16L/34R) 4097 IAF. ALTERNATE MISSED (IAF) CORVALLIS APCH FIX SHEDD 115.4 CVO **.::=** △ EUG 22.1 Chan 101 CORVALLIS cvo <u>-:-</u> 115.4 3600 to FIPMA Procedure NA for arrivals (ZIGTA) Chan 101 225° (5.7) at CV@ VOR/DME and LOC (3.1) via V495 north bound (IF) V481 northwest bound **FIPMA** Procedure NA I-ADE 16.2) for arrivals at SHEDD via V23 northbound. 160 10.1 NW-1, 17 DEC 2009 to 14 JAN 2010 DME REQUIRED 3166 **ZUNAX** 3325± 500± I-ADE (6.1) 100 EUGENE 2112 112.9 EUG ∴= LOCALIZER 111.75 4600 \_ Chan 76 MISSED I-ADE :-. **APCH** Chan 54 (Y) SAGIN FIX EUG [16] ELEV 374 D 160° 4.9 NM ۸<sup>805</sup> from FAF 19 L VGSI and ILS alidepath not coincident. 5200 **FIPMA** 0 Procedure **EUG** SAGIN Use I-ADE DME when on the I-ADE 16.2) **TDZE** Turn R-152 Λ localizer course. 369 NA 112.9 ZUNAX 160° I-ADE 6.1 3600 I-ADE (H)(H)(H)1600. I-ADE 2.4 396 2000 GS 3.00° **☆** 425 TCH 46 10.1 NM 3.7 NM CATEGORY 569-1/2 S-ILS 16L 200 (200-1/2) 341 800-3/4 800-1 S-LOC 16L 800-1/2 431 (500-1/2) 431 (500-3/4) 431 (500-1) TDZ/CL Rwy 16R REIL Rwy 34R 0 800-1 840-1 840-11/2 940-2 CIRCLING HIRL Rwys 16L-34R and 16R-34L 1 426 (500-1) 466 (500-1) 566 (600-2) 466 (500-11/2)

EUGENE, OREGON AL-140 (FAA) LOC/DMF I-FUG 8009 Rwy Ida ILS or LOC/DME Z RWY 16R APP CRS TDŹF 364 110.1 1600 EUGENE/MAHLON SWEET FIELD (EUG) Apt Elev 374 Chan **38** ALSF-2 MISSED APPROACH: Climb to 1000 then climbing right For inoperative ALSF-2: increase S-LOC 16R Cat D visibility to RVR 5000. turn to 5000 via heading 230° and EUG R-205 to VAUGN/ A EUG 14 DME and hold, continue climb-in-hold to 5000. DME required. EUGENE TOWER ★ UNICOM CASCADE APP CON ATIS GND CON CINC DEL 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 121.7 269.5 122.95 125.225 119.6 348.7 121.7 269.5 124.15 371.9 (Rwy 16L/34R) MSA EU 25 NA 4097 JAF-CORVALLIS 340 4000 NoPT 1454 CVOV 1000 131° (5.9) 1090°-Chan 101 (IF) R-131 46001 HOCUM INT I-EUG [18.4) 2000 RADAR 160° (12.2) IAF FRAKK 260 EU :.-I-EUG (6.2) 1959 NW-1 17 DEC 2009 to 14 JAN 2010 3168 3000 to NDB 3325 ± 341° (5.5) 3407 449± 2460 **EUGENE** ΙM 257 112.9 EUG :--805 LOCALIZER Chan 76 I-EUG Chan 38 Λ<sup>1281</sup> M1666± 1000 2054 ELEV 374 VAUGN 160° 4.6 NM from FAF 19 L NDB 1000 5000 FUG Remain VAUGN I-EUG 6.2 within 10 NM R-205 **TDZE** Δ 112.9 364 2309 I-EUG 1908 I-EUG 2.5 2500 6000 X 1.6 1600 (H)(H)(H)IM 2000 \*2000 396 GS 3.00° 425 TCH 52 \*LOC only 3.7 NM 0.2 CATEGORY D 34R 564/18 200 (200-1/2) S-ILS 16R 700/40 3**4**L S-LOC 16R 700/24 336 (400-1/2) TDZ/CL Rwy 16R 336 (400-34) REIL Rwy 34R 0 800-1 940-2 840-1 840-11/2 CIRCLING HIRL Rwy 16L-34R and 16R-34L (L) 466 (500-1) 466 (500-11/2) 566 (600-2) 426 (500-1)





EUGENE, OREGON AL-140 (FAA) LOC/DMF I-FUG 8009 Rwy Idg ILS RWY 16R (CAT III) APP CRS TDŹF 364 110.1 1600 Apt Elev EUGENE/MAHLON SWEET FIELD (EUG) 374 Chan **38** ALSF-2 MISSED APPROACH: Climb to 1000 then climbing right Cat III minimums not authorized when control tower closed. turn to 5000 via heading 230° and EUG R-205 to VAUGN/ ▥ A DME required. Ø EUG 14 DME and hold, continue climb-in-hold to 5000. EUGENE TOWER \* CASCADE APP CON UNICOM ATIS GND CON CINC DEL 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 121.7 269.5 122.95 125.225 119.6 348.7 121.7 269.5 124.15 371.9 (Rwy 16L/34R) NSA EU 25 Nu 4097 JAF-CORVALLIS 5300 1754 CVO7 : 12 4000 NoPT V1000 131° (5.9) (IF) R-131 HOCUM INT 4600 I-EUG [18.4) 2000 RADAR 160° (12.2) IΔF **FRAKK** 260 EU :.. I-EUG 6.2 1959 NW-1 17 DEC 2009 to 14 JAN 2010 3168 3000 to NDB 3325 ± 341° (5.5) 3407 **EUGENE** ΙM 112.9 EUG :--> 110.1 805 LOCALIZER Chan 76 I-EUG :. I ± Chan 38 **∧**1281 M1666± 1000 2054 ELEV 374 D VAUGN EUG 14 2880 1935 16₽ 19 L **TDZE** NDB 5000 1000 Remain EUG 364 VAUGN I-EUG 6.2) within 10 NM 0 R-205 Δ 340° 230 112.9 1908 MM 2500 (H)(H)(H)160° IM 541 364 459 396 MSL GS 3.00° 2000 425 TCH 52 4.2 NM 1570′ -930′ CATEGORY 34R S-ILS 16R CAT IIIa RVR 07 S-ILS 16R RVR 06 CAT IIIb 341 S-ILS 16R CAT IIIc NA CATEGORY III ILS - SPECIAL AIRCREW TDZ/CL Rwy 16R REIL Rwy 34R ( & AIRCRAFT CERTIFICATION REQUIRED HIRL Rwy 16R-34L and 16L-34R 0



34L

TDZ/CL Rwy 16R

HIRL Rwy 16L-34R 0

HIRL Rwy 16R-34L

REIL Rwy 34R 0

470±

340° to

RW34

VNAV

LNAV MDA

CIRCLING

800-1

426 (500-1)

760-1 386 (400-1)

840-1

466 (500-1)

840-11/2

466 (500-11/2)

NW-1 17 DEC 2009 to 14 JAN 2010

760-1¼

386 (400-11/4)

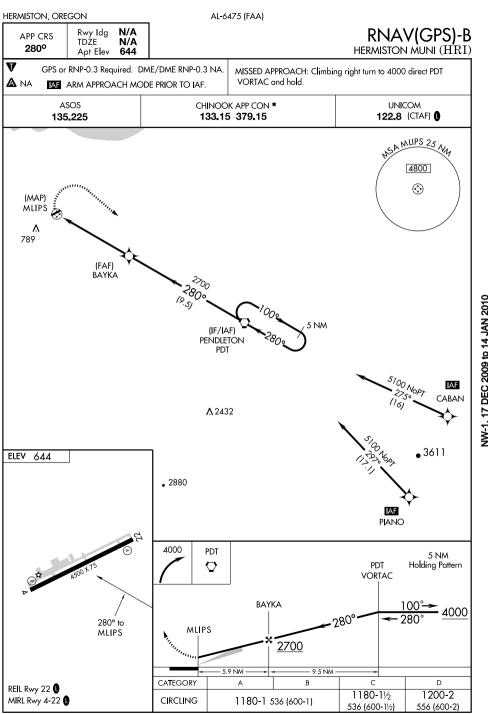
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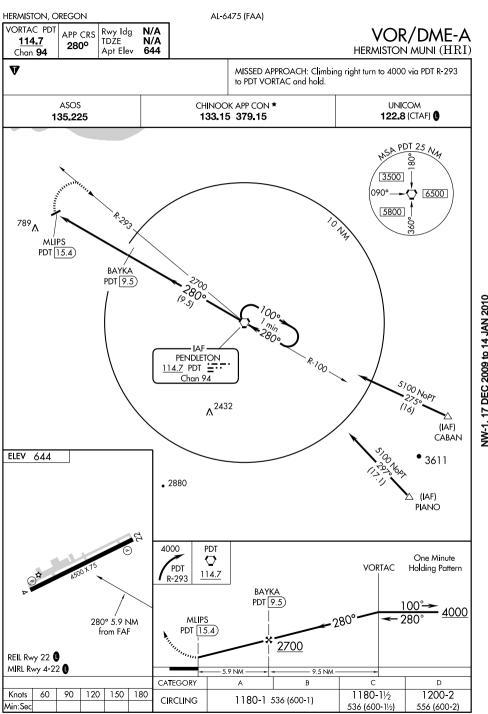
566 (600-2)

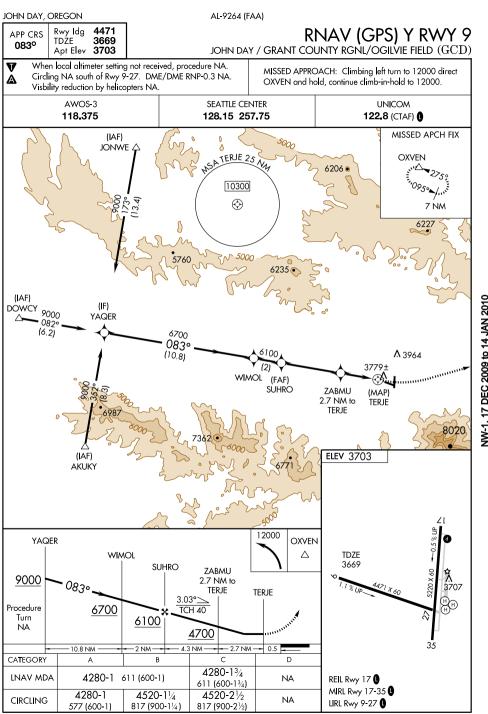
AL-140 (FAA) EUGENE, OREGON VORTAC EUG 8009 Rwy Idg VOR/DME or TACAN RWY 16R APP CRS 112.9 TDŹE 363 168° EUGENE/MAHLON SWEET FIELD (EUG) Apt Elev 374 Chan **76** ALSF-2 For inoperative MALSR, increase S-16R Cat D visibility MISSED APPROACH: Climbing right turn to 4000 via to RVR 6000. EUG R-205 to VAUGN/14 DME and hold. EUGENE TOWER \* CASCADE APP CON UNICOM ATIS CLNC DEL GND CON 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 125.225 119.6 348.7 121.7 269.5 122.95 121.7 269.5 124.15 371.9 (Rwy 16L/34R) 1500 168° (7.7) 1 2967 5000160 3166 (IAF) 3325 ± A 3200 WEBST 348° (4.3) EUG 4.3) EUĞENE κ<sub>449±</sub> •112.9 EUG 🛂 🗖 . R-064 (IAF) Chan 76 MOHWK 2572 ₺ EUG [12] ∧<sup>805</sup> 1000 1281 0 2156 1666± X NSA EUG 25 NA ELEV 374 D 168° 3.4 NM **WAUGN** 58° 3.4. from FAF 191 5300 J 9K\_ 100° TDZE 4600 363 0 4000 WEBST 6000 X VAUGN Remain (H)(H)(H)EUG 4.3) within 10 NM Δ EUG R-205 396 **EUG** VORTAC **☆** 425 1.9 2700 **EUG** ∠ 3.01° 0.9 TCH 50 34R 1500 1 NM 2.4 NM-341 CATEGORY C D В 720/50 S-16R 720/24 357 (400-1/2) TDZ/CL Rwy 16R 357 (400-1) REIL Rwy 34R 🗓 800-1 840-1 840-11/2 940-2 CIRCLING HIRL Rwy 16L-34R and Rwy 16R-34L **1** 466 (500-11/2) 426 (500-1) 466 (500-1) 566 (600-2)

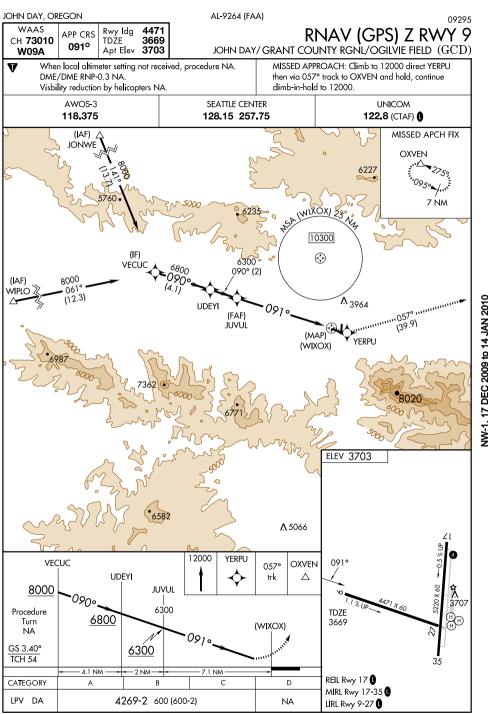
NW-1, 17 DEC 2009 to 14, IAN 2010

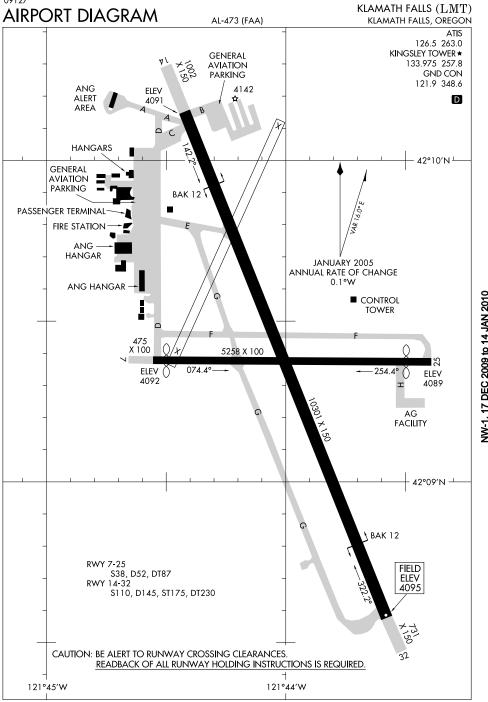
EUGENE, OREGON AL-140 (FAA) VORTAC EUG 8009 Rwy Idg VOR/DME or TACAN RWY 34L APP CRS 112.9 TDŹE 367 3320 EUGENE/MAHLON SWEET FIELD (EUG) Apt E**l**ev 374 Chan **76** V **ODALS** MISSED APPROACH: Climbing left turn to 4000 via EUG R-205 to VAUGN/14 DME and hold. EUGENE TOWER \* CASCADE APP CON UNICOM ATIS CLNC DEL GND CON 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 125.225 119.6 348.7 122.95 121.7 269.5 121.7 269.5 124.15 371.9 (Rwy 16L/34R) 1959 3166 ∆3325 ± **FUGENE** 112.9 EUG :--. Chan 76 490± **EUG** ۸ 805 2.3 1981± 684 ± 000 DUKKS NW-1, 17 DEC 2009 to 14, IAN 2010 EUG 5 1281 2156 SA EUG 23 W 2054 (IAF) 5300 VAUGN EUG TA 100°-4600 (IAF) 14) 3100 374 332° (2) (AF) SAGIN 19 L EUG 18 4000 VGSI and descent angles not coincident EUG VAUGN 14) 6000 X 150 EUG Δ EUG (H)(H)(H)9 R-205 **DUKKS** 3100 EUG 5 396 **EUG ☆** 425 VORTAC 2.3 ≤3.49° **EUG** 2500 TCH 54 × Procedure TDZE 2100 Turn 367 34R NA 1040 0.5 1.3 NM 2.7 NM -- 5 NM -4 NM 332° 4.5 NM 34L CATEGORY D from FAF В C 760/60 TDZ/CL Rwy 16R S-34L 760/40 393 (400-34) 393 (400-11/4) REIL Rwy 34R L HIRL Rwy 16L-34R ( 800-1 840-1 840-11/2 940-2 CIRCLING HIRL Rwy 16R-34L 0 <u>466</u> (500-1) 466 (500-11/2) 426 (500-1) 566 (600-2)

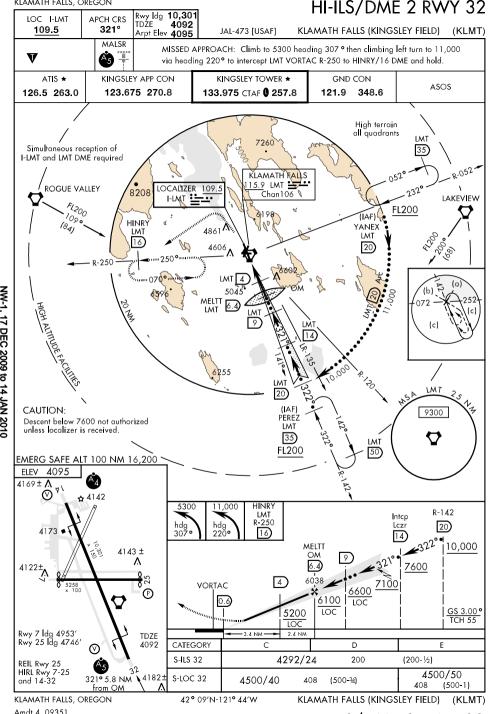


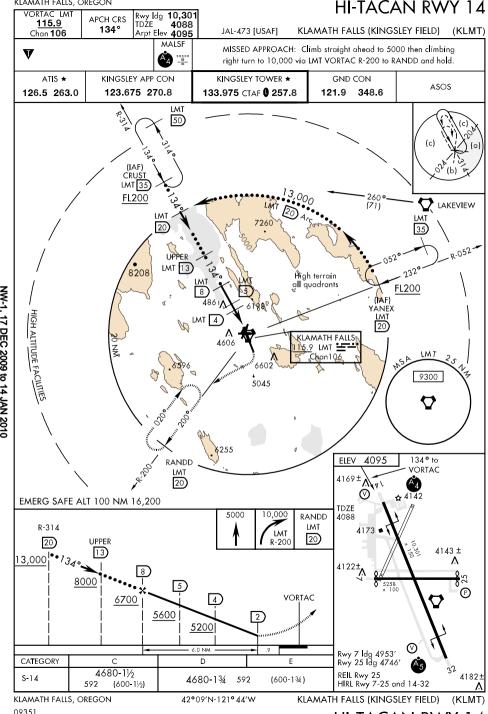


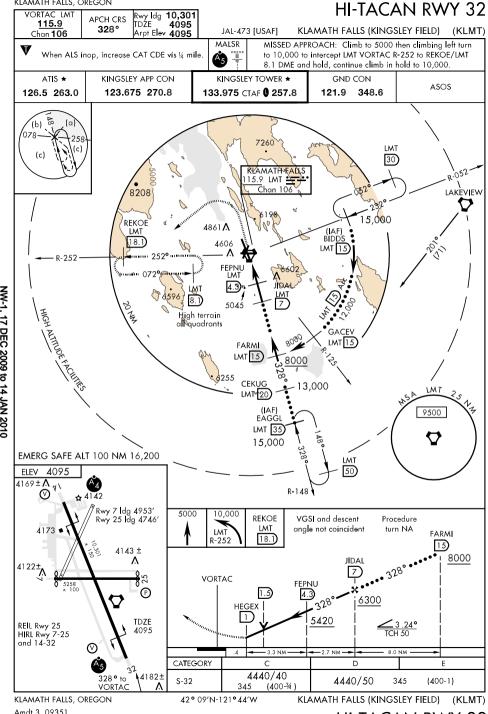


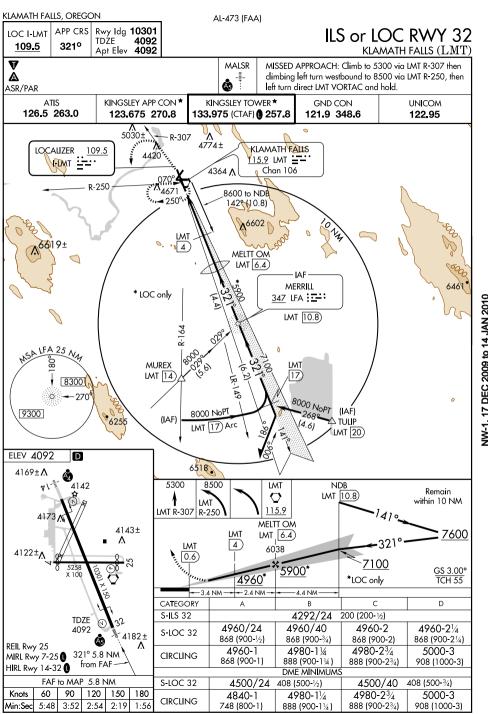








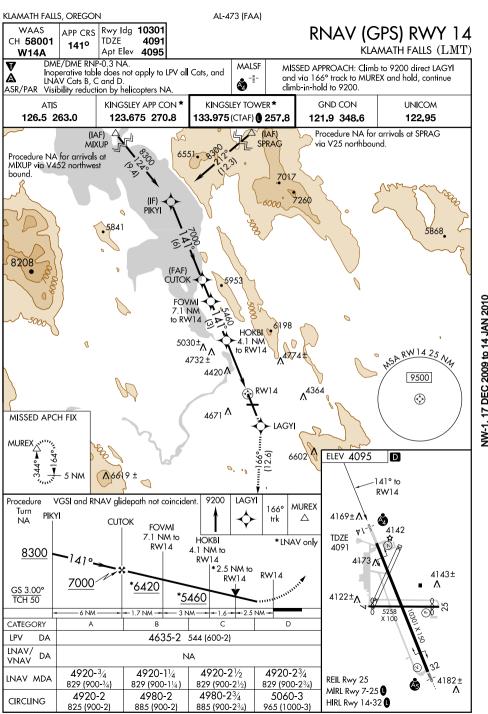




(LM13.LM1) 09295 KLAMATH FALLS (LMT) KINGSLEY THREE DEPARTURE SL-473 (FAA) KLAMATH FALLS, OREGON ATIS 126.5 263.0 GND CON EUGENE 121.9 348.6 KINGSLEY TOWER \* 112.9 EUG 🛂 🗖 . **DESCHUTES** 133.975 257.8 Chan 76 KINGSLEY DEP CON \* 117.6 DSD .... N44°07.25′-W123°13.37′ 123.675 270.8 Chan 123 L-1, H-1 N44°15.17′-W121°18.21′ L-13, H-1 ROSEBURG 108.2 RBG =::: Chan 19 N43°10.95′-W123°21.14′ LAKEVIEW 10000 or L-1, H-1 112.0 LKV ::: assianed altitude Chan 57 N42°29.57′-W120°30.43′ L-11, H-3 **ROGUE VALLEY** 113.6 OED ... Chan 83 N42°28.78′-W122°54.78′ KLAMATH FALLS 115.9 LMT ==-L-2. H-3 Chan 106 N42°09.19′-W121°43.65 L-2. H-3 FORT JONES 10000 or 109.6 FJS :-assianed altitude Chan 33 N41°26.98′-W122°48.39′ MUSTANG **RED BLUFF** 117.9 FMG ==: 115.7 RBL ::: \_ Chan 126 Chan 104 N39°31.88′-W119°39.37′ N40°05.93′-W122°14.18′ L-9. H-3 L-2. H-3 NOTE: Chart not to scale. NOTE: This SID requires a minimum climb of 325' per NM to 8500' or 4500' ceiling and 3 mile visibility to clear obstruction. (813 FPM at 150K, 1083 FPM 200K, 1354 FPM at 250K). V DEPARTURE ROUTE DESCRIPTION TAKE-OFF RUNWAYS 14 and 32: Climb via runway heading until leaving 4700'. Then via radar vector headings to assigned route. LOST COMMUNICATIONS If not in contact with Seattle Center after reaching 10000' or assigned altitude, if lower; continue climb to assigned altitude and: Take-off runway 14: Climbing right turn direct LMT VORTAC, thence via (assigned route). Take-off runway 32: Climbing left turn direct LMT VORTAC, thence via (assigned

route).

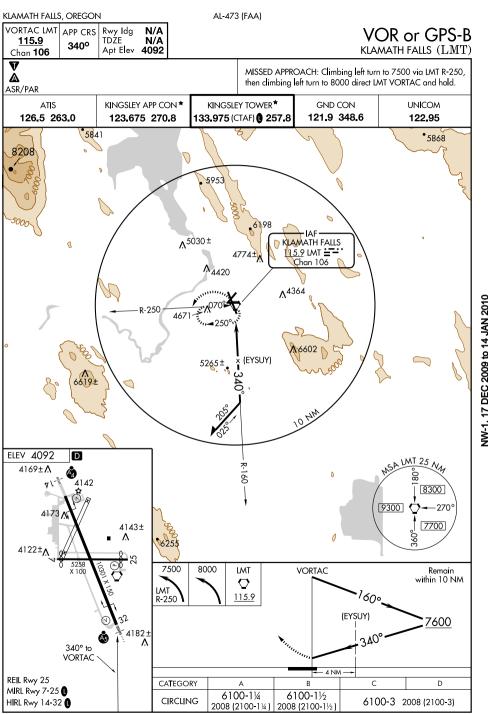
NW-1, 17 DEC 2009 to 14 JAN 2010

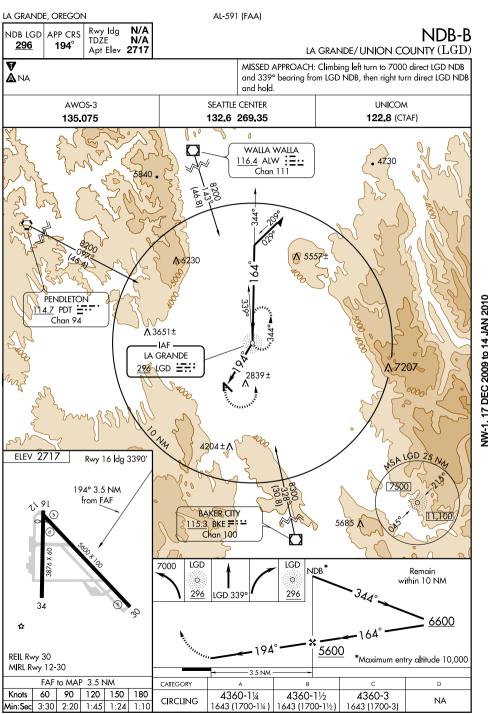


KLAMATH FALLS, OREGON AL-473 (FAA) VORTAC LMT Rwy Idg 10301 VOR/DME or TACAN RWY 14 APP CRS 115.9 TDŹE 4091 1340 KLAMATH FALLS (LMT) Apt Elev 4095 Chan **106** Cat E circling NA northeast of Rwy 14-32. MISSED APPROACH: Climb to 4900 then MALSE For inoperative MALSF increase S-14 Cat E visibility to 23/4, climbing right turn to 9200 via LMT R-164 A -1inoperative table does not apply to Cats B, C, and D. to MUREX/14 DME and hold, continue ASR/PAR Visibility reduction by helicopters NA. climb-in-hold to 9200 ATIS KINGSLEY APP CON★ KINGSLEY TOWER★ GND CON UNICOM 122.95 133.975 (CTAF) @ 257.8 121.9 348.6 126.5 263.0 123.675 270.8 8036 (IAF) NSA LMT 25 My 6841 MIXUP LMT 25) 8500 655 9500 270° 7800 7017 7260 (IF) HIVPO LMT [15] 5841 **PICIV** 5868 • LMT [15) 8208 5953 EYOWO LMT (8.8) Procedure NA for arrivals 6 98 at LMT VORTAC on 500 5030± ICUTU V-25 southbound. LMT 5 4774± - IAF MAFEG KLAMATH FALLS LMT [1.5) 115.9 LMT = 1 Chan 106 (IAF) 4420 **OLEBY** LMT [15) MISSED 4364 APCH 4P <sub>4671</sub>∧ FIX **ELEV 4095** D 10 NM MUREX 6602 4169±**∧** LMT 14 134° 7.4 NM 4142 from FAF y۷ TDZE 4091 4173 A 9200 VGSI and descent angles not coincident. 4900 4143± MUREX **HIVPO** LMT [15) Δ **EYOWO** LMT 4122±∧ R-164 LMT [8.6] **ICUTU** LMT [5] LMT 8600 13₄∘ 3.4 3.50°. MAFEG TCH 50 LMT 1.5 6900 Procedure Turn 5580 NA ₹4182± 6.5 NM 3.6 NM -1.6 NM --- 1.9 -- 0.4 CATEGORY D 4860-3/4 4860-11/4 4860-21/4 S-14 4860-21/2 769 (800-21/2) REIL Rwy 25 769 (800-34) 769 (800-114) 769 (800-214) MIRL Rwy 7-25 (1) 4860-1 4980-11/4 4980-23/4 5060-3 5600-3 CIRCLING HIRL Rwy 14-32 ( 765 (800-1) 885 (900-11/4) 885 (900-23/4) 965 (1000-3) 1505 (1600-3)

NW-1 17 DEC 2009 to 14 JAN 2010

KLAMATH FALLS, OREGON AL-473 (FAA) VORTAC LMT Rwy Idg 10301 VOR/DME or TACAN RWY 32 APP CRS 115.9 TDŹE 4092 3280 KLAMATH FALLS (LMT) Apt Elev 4092 Chan 106 MISSED APPROACH: Climb to 5000 then climbing left V Cat. E procedure turn NA. MALSR turn to 8500 via LMT R-260 then climbing left turn to \* Cat. E circling NA northeast of Rwy 14-32. 10000 direct LMT VORTAC. (TACAN aircraft continue ASR/PAR S-32 Cat. D visibility increased to RVR 6000 for climb on R-260 to 10000 to GIANT/16 DME and hold inoperative ALSF-1. East, left turns, 260 inbound.) KINGSLEY APP CON \* KINGSLEY TOWER \* GND CON ATIS UNICOM 123.675 270.8 126.5 263.0 133.975 (CTAF) 0 257.8 121.9 348.6 122.95 6198 KLAMATH FALLS 8 **∆** 5030 ± GIANT 15.9 LMT =-LMT [16] Chan 106 4774± 4420<sup>^</sup> ,080°i A 4364 ۸ 8500 to 4671 MT 6 DME 1489761 A 6602 LMT VW-1, 17 DEC 2009 to 14, IAN 2010 4 (IAF) LMT (9) 6619± SA LMT 25 My 328 (A) LMT 8300 10) 9300 7700 6800 328° (7) (IAF) 8000 NoP **ELEV** 4092 4169±Λ 8000 NoPT (IAF) LMT 17)Arc 4173/ 8500 5000 10000 LMT LMT 4143± Remain  $\Diamond$ 6 within 10 NM LMT 4122±∧ 115.9 R-260 1480 5258 X 100 LMT **VORTAC** LMT 10 7600 **-**328° 4 **TDZE** 4092 6800 6000 5300 ₹4182± 0.4 3 NM 2 NM 4 NM CATEGORY D Е C 328° 5.4 NM 4500/40 4500/24 408 (500-1/2) S-32 4500/50 408 (500-1) **REIL Rwy 25** from FAF 408 (500-34) MIRL Rwy 7-25 1 5000-3 5500-3 4840-1 4980-11/4 4980-234 CIRCLING\* HIRL Rwy 14-32 0 748 (800-1) |888 (900-1¼) |888 (900-2¾) |908 (1000-3) |1408 (1500-3)





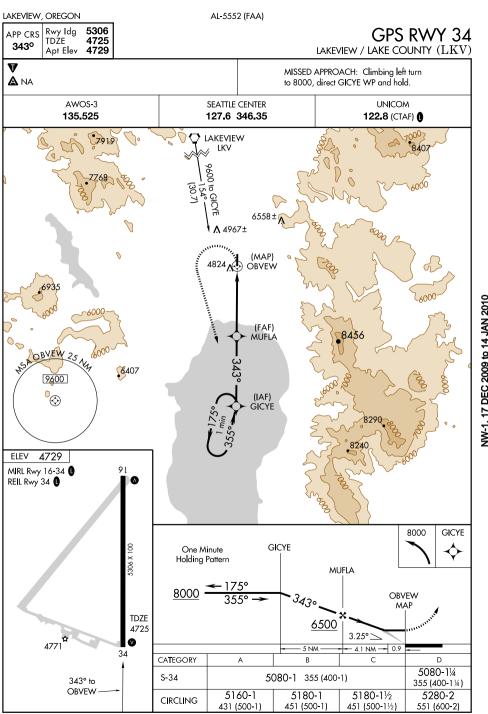
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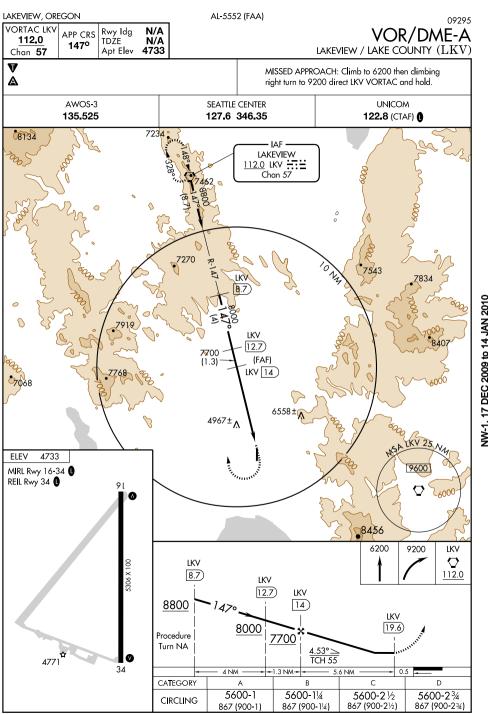
LA GRANDE, OREGON

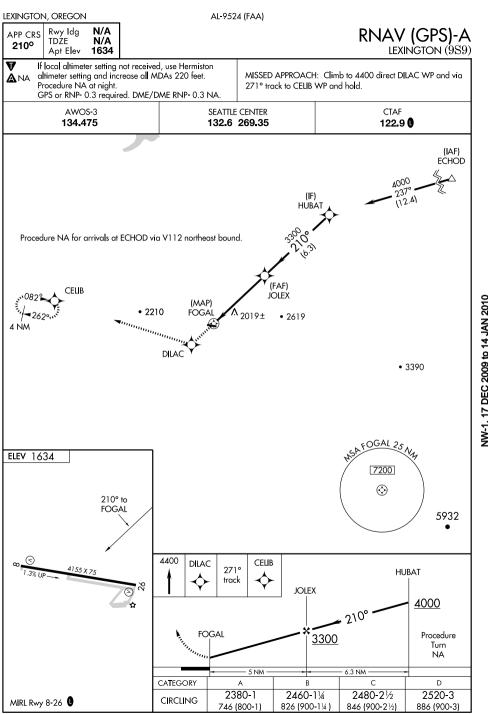
## RNAV (GPS) RWY 16 LA GRANDE/UNION COUNTY (LGD)

NW-1, 17 DEC 2009 to 14, IAN 2010

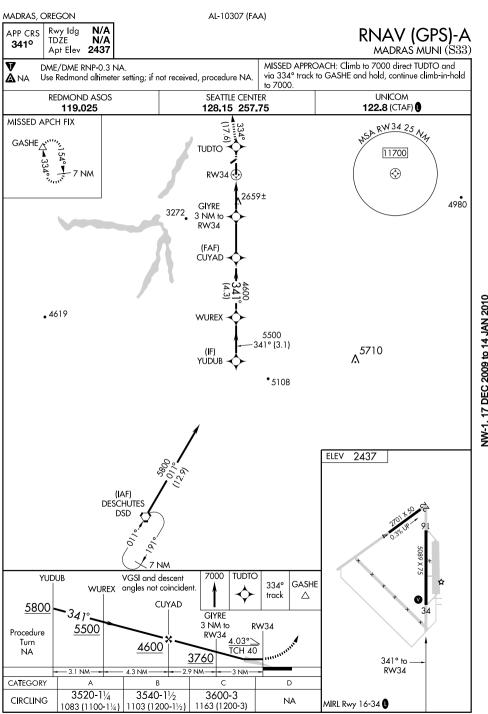
Apt Elev 2717 77 DMF/DMF RNP-0 3 NA MISSED APPROACH: Climb to 9000 direct HIPVO and via  $\mathbf{A}$  NA 139° track to NUDEQ and hold, continue climb-in-hold to 9000. If local altimeter setting not received procedure NA. AWOS-3 SEATTLE CENTER UNICOM 135,075 122.8 (CTAF) 132.6 269.35 (IAF) Procedure NA for arrivals at TOLGA TOLGA ATOKE via V357 northwest, and arrivals at 221°.A ATOKE via V182 northeast bound. RW 16 25 Ny USOWE 10900 6400 , 163° (4)  $\bigcirc$ **EGHEB** 163° 103° (FAF) LIPMY 2869± ∴3651± LPV-Fly visual, 7933 163°-4.5 NM RW16 MISSED APCH FIX ELEV 2717 Rwy 16 ldg 3390<sup>s</sup> NUDEQ 163° to RW16 8 NM 15685 ر فا 9000 HIPVO **TDZE** Procedure NUDEQ 139° **USOWE** 2714 Turn track Δ **EGHEB** NA 7000 LPV, Fly visual -163 \*5.3 NM to \* LNAV only 163° 4.5 NM RW16 RW16 6400 GS 3.00° 4800 TCH 35 10 NM 4 NM 5.3 NM 1 NM CATEGORY LPV 4173-2 1459 (1500-2) 4173-3 1459 (1500-3) DA LNAV/ DA NA VNAV 4440-11/4 4440-11/2 LNAV MDA 4440-3 1726 (1800-3) **REIL Rwy 30** 1726 (1800-11/4) 1726 (1800-11/2) MIRL Rwy 12-30 4440-6 1723 (1800-6) CIRCLING

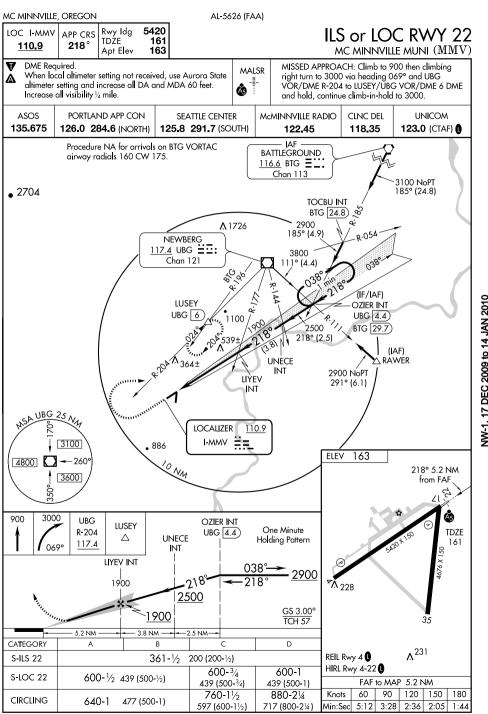


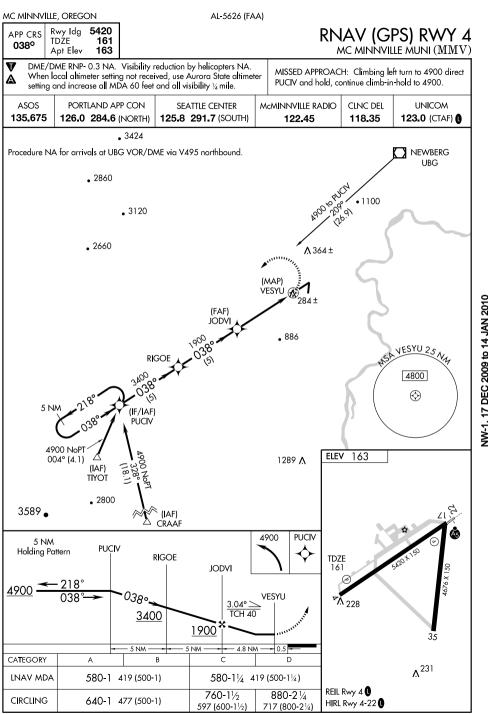


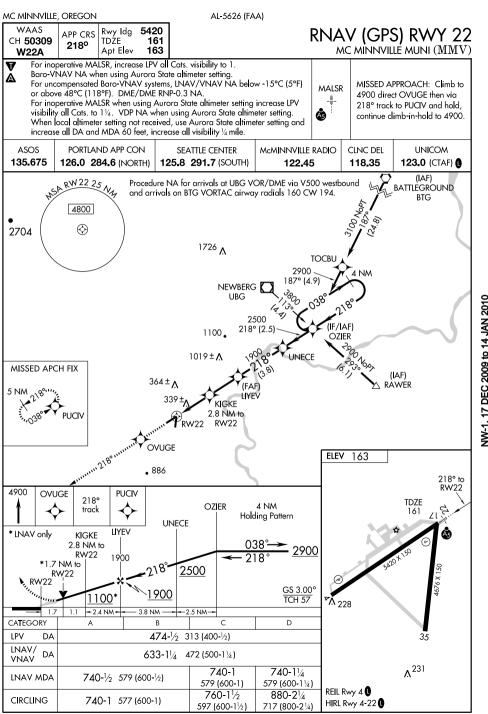


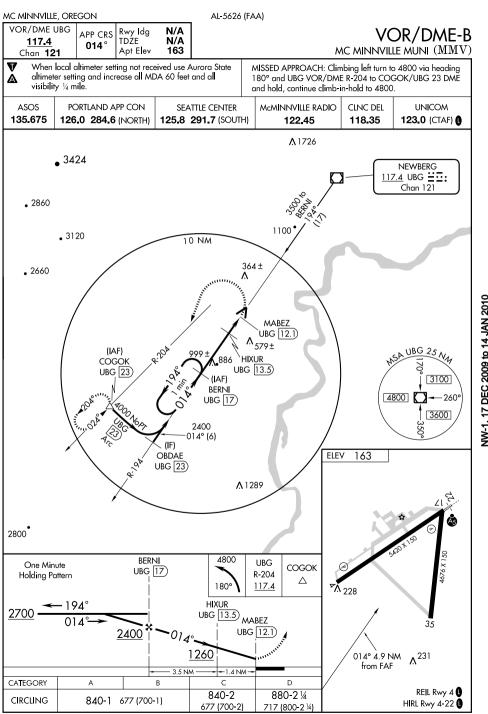
LEXINGTON, OREGON AL-9524 (FAA) Rwy Idg 4155 RNAV (GPS) RWY 8 APP CRS TDŹF 1613 082° LEXINGTON (9S9) Apt Elev 1634 v If local altimeter setting not received, use Hermiston MISSED APPROACH: Climbing left turn to 4400 direct altimeter setting and increase all MDAs 220 feet. **A**NA CELIB WP and hold. Procedure NA at night. GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA. CTAF AWOS-3 SEATTLE CENTER 122.9 0 134.475 132.6 269.35 KLICKITAT LTJ LOAMS 5500 (IAF) 400 FODIN 0880 235° (40.2) 4400 NOPT (15.71 (IF/IAF) (10) CELIB (FAF) 3200 FAVDA 0820 2210 NW-1, 17 DEC 2009 to 14, IAN 2010 262° (6.1) 4 NM (MAP) WALDA Procedure NA for arrival at BREED via V182 east bound. Procedure NA for arrival at LOAMS via V112 northeast bound. BRFFD Procedure NA for arrival on LTJ VOR/DME airway radials 032 CW 116. WALDA 25/12 **ELEV 1634** 7200 3558± **(** 4400 CELIB 4 NM **CELIB** Holding Pattern 4155 X 75 FAVDA **TDZE** 4400 1613 رو00 3.04°> WALDA TCH 44 3200 6.1 NM 4.6 NM CATEGORY Α 2120-1 LNAV MDA 507 (500-1) 2120-1/2 507 (500-1/2) 2380-1 2460-11/4 2480-21/2 2520-3 **CIRCLING** MIRL Rwy 8-26 **1** 746 (800-1) 826 (900-11/4) 846 (900-21/2) 886 (900-3)

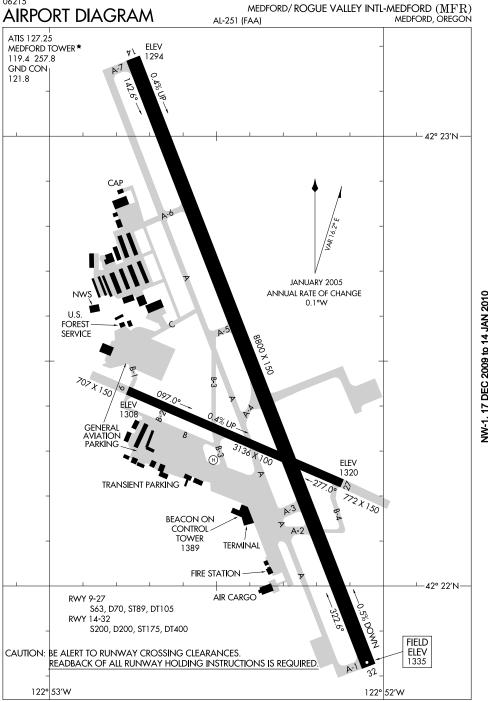


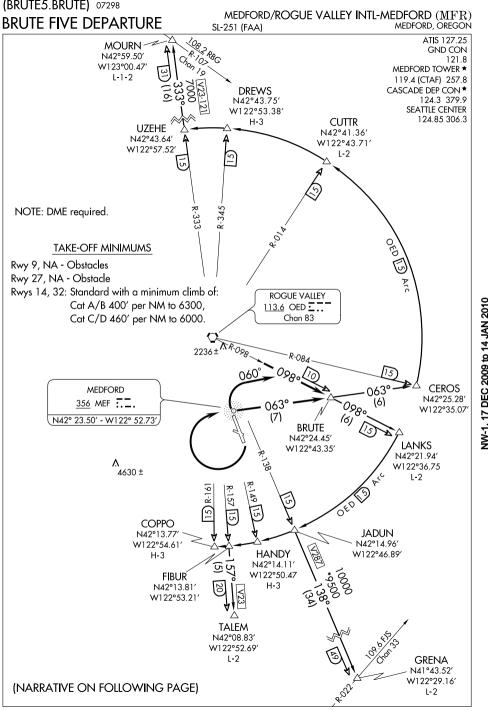












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DRUIE FIVE DEPARTURE	SL-251 (FAA)
BRUTE FIVE DEPARTURE	MEDFORD/ROGUE
(BRUTE5.BRUTE) 02332	////

ARTURE SL-251 (FAA) MEDFORD, ÖREGON

VALLEY INTL-MEDFORD (MFR)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 14: Climbing right turn direct to MEF NDB, depart MEF NDB 063° bearing outbound to BRUTE INT. Thence. . . .

TAKE-OFF RUNWAY 32: Climbing right turn via 060° heading and OED R-098 to BRUTE

INT. Thence. . . .

. . . . via (transition) or (assigned route). Maintain 11000 or assigned altitude.

<u>COPPO TRANSITION (BRUTE5.COPPO)</u>: From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to COPPO DME.

CUTTR TRANSITION (BRUTES.CUTTR): From over BRUTE INT via MEF NDB bearing

<u>CUTTR TRANSITION (BRUTE5.CUTTR)</u>: From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to CUTTR DME.

063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to CUTTR DME.

DREWS TRANSITION (BRUTE5 DREWS): From over BRUTE INT via MEF NDB bearing

063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to DREWS DME. GRENA TRANSITION (BRUTE5.GRENA): From over BRUTE INT via OED R-098 to

GRENA TRANSITION (BRUTE5.GRENA): From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to JADUN DME. Then via OED R-138 to GRENA INT.

 $\frac{\text{HANDY TRANSITION (BRUTE 5. HANDY)}}{\text{LANKS INT. Turn right and proceed via the OED 15 DME Arc to HANDY DME.}}$ 

LANKS TRANSITION (BRUTE5.LANKS): From over BRUTE INT via OED R-098 to

LANKS INT.

MOURN TRANSITION (BRUTES.MOURN): From over BRUTE INT via MEF NDB bearing

063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to UZEHE DME. Then via OED R-333 to MOURN INT.

TALEM TRANSITION (BRUTE5.TALEM): From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to FIBUR DME. Then via

INT. Turn right and proceed via the OED 15 DME Arc to FIBUR DME. Then via OED R-157 to TALEM DME.

<u>UZEHE TRANSITION (BRUTE5.UZEHE)</u>: From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to UZEHE DME.

NW-1, 17 DEC 2009 to 14 JAN 2010

FAGIF THRFF DFPARTURE MEDFORD, OREGON SL-251 (FAA) ATIS 127.25 GND CON

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)

MEDFORD TOWER★ 119.4 257.8 CASCADE DEP CON★ 124 3 379 9 SEATTLE CENTER

(EAGLE3.EAGLE) 07298

121.8

124.85 306.3 R-070 **ROGUE VALLEY** 113.6 OED ... 2318÷ Chan 83 N42°28.78′ - W122°54.78′ L-2. H-3

#### TAKE-OFF MINIMUMS RWY 32: 1700-3 or standard with minimum climb

of 300' per NM to 3000'.

RWYS 9, 14, and 27: Not authorized for this departure procedure. ATC climb rate of 410' per NM until passing 6300 required.

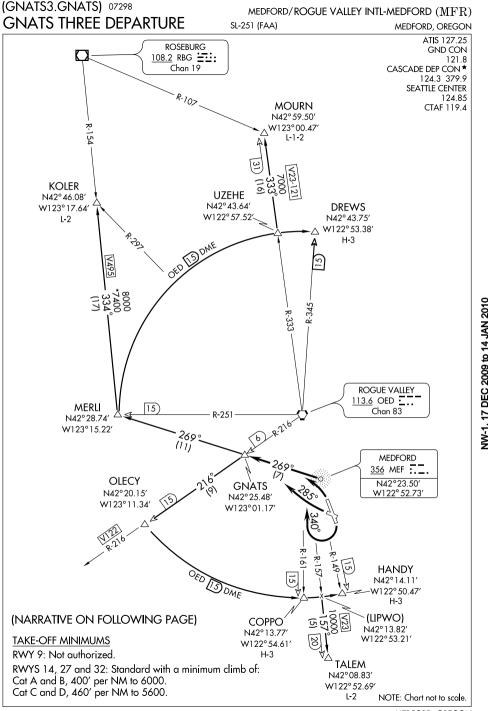
V

### DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 32: Climbing right turn to heading 015°, maintain 11000' or assigned altitude, expect radar vectors to assigned route. Expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC crossing the OED R-070, turn left, proceed direct OED VORTAC, continue climb in holding pattern (NW, right turn, 153° inbound) to minimum crossing altitude/minimum

enroute altitude before proceeding on course.



NW-1, 17 DEC 2009 to 14 JAN 2010

SL-251 (FAA) MEDFORD, OREGON

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR.)

# V

(GNATS3.GNATS) 05132

## DEPARTURE ROUTE DESCRIPTION

bearing outbound to GNATS INT. Thence. . . . TAKE-OFF RUNWAY 27: Climbing right turn via 285° heading and MEF NDB 269° bearing outbound to GNATS INT. Thence. . . .

TAKE-OFF RUNWAY 32: Climbing left turn via MEF NDB 269° bearing outbound to GNATS INT. Thence.

. . . .via (transition) or (assigned route). Maintain 10,000' or assigned lower altitude.

COPPO TRANSITION (GNATS3.COPPO): From over GNATS INT via OED R-216 to OLECY INT, then via the OED 15 DME Arc to COPPO DME.

DREWS TRANSITION (GNATS3.DREWS): From over GNATS INT via the MEF NDB

269° bearing to MERLI INT, then via the OED 15 DME Arc to DREWS DME.

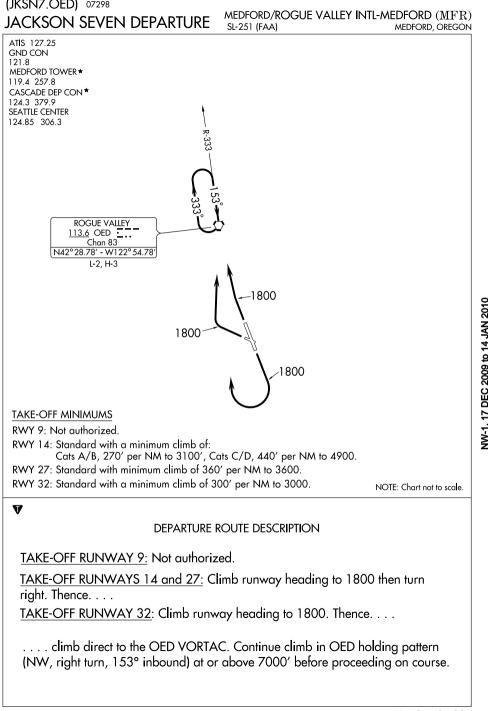
HANDY TRANSITION (GNATS3.HANDY): From over GNATS INT via the OED R-216 to OLECY INT, then via the OED 15 DME Arc to HANDY DME.

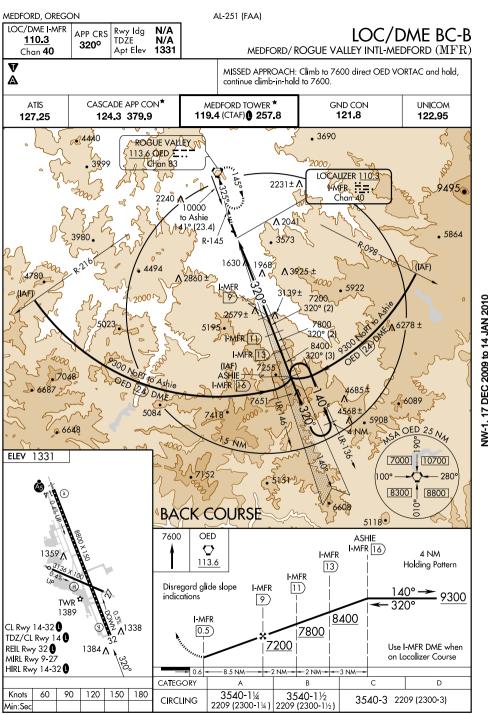
KOLER TRANSITION (GNATS3.KOLER): From over GNATS INT via MEF NDB 269° bearing to MERLI INT, then via RBG R-154 to KOLER INT.

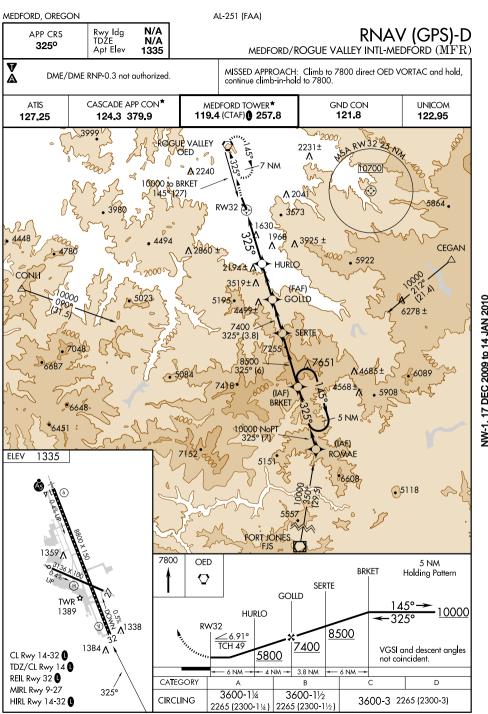
MOURN TRANSITION (GNATS3.MOURN): From over GNATS INT via MEF NDB 269° bearing to MERLI INT, then via the OED 15 DME Arc to intercept OED R-333 to

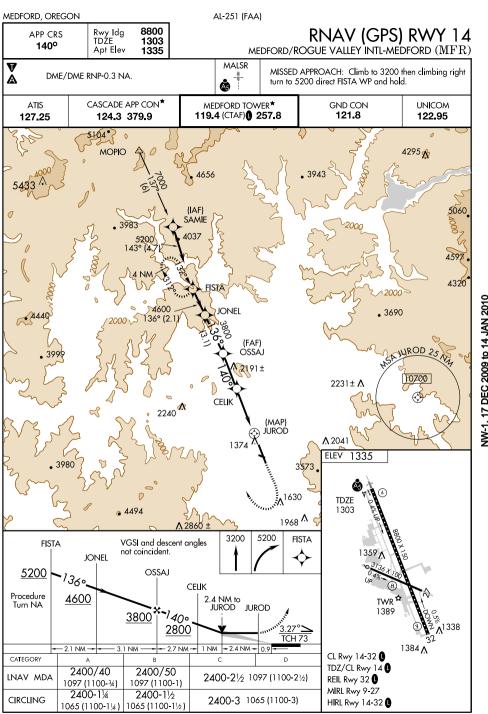
MOURN INT. TALEM TRANSITION (GNATS3.TALEM): From over GNATS INT via OED R-216 to OLECY INT, then via the OED 15 DME Arc to intercept OED R-157 to

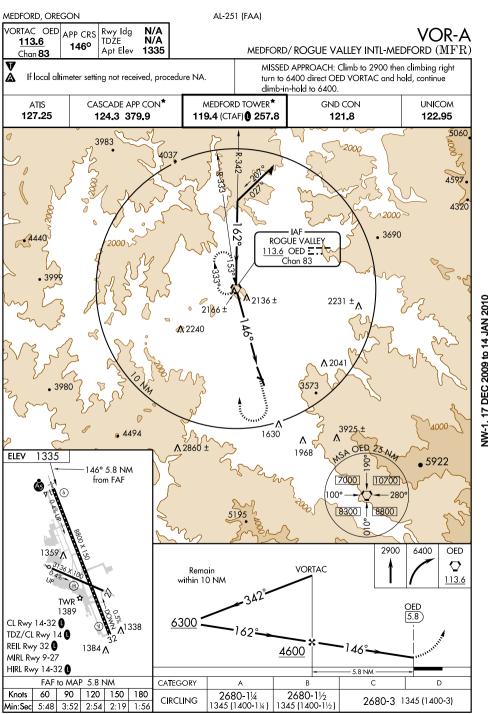
TAIFM DMF

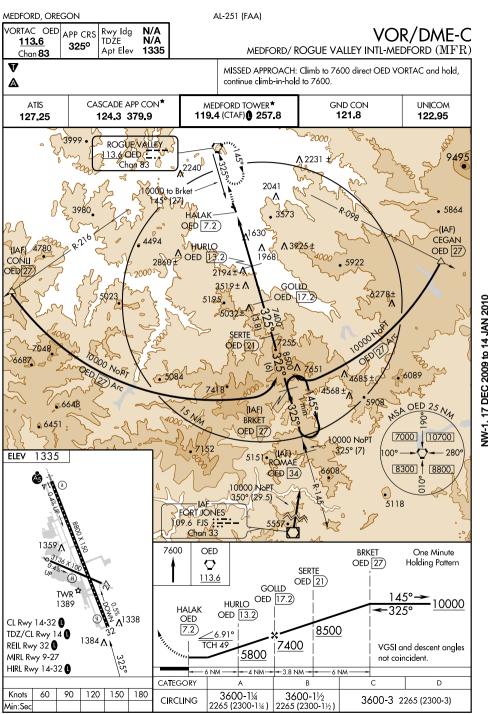


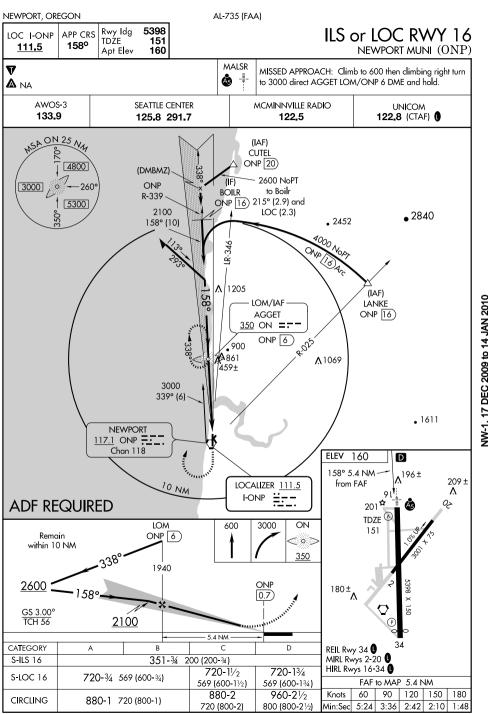


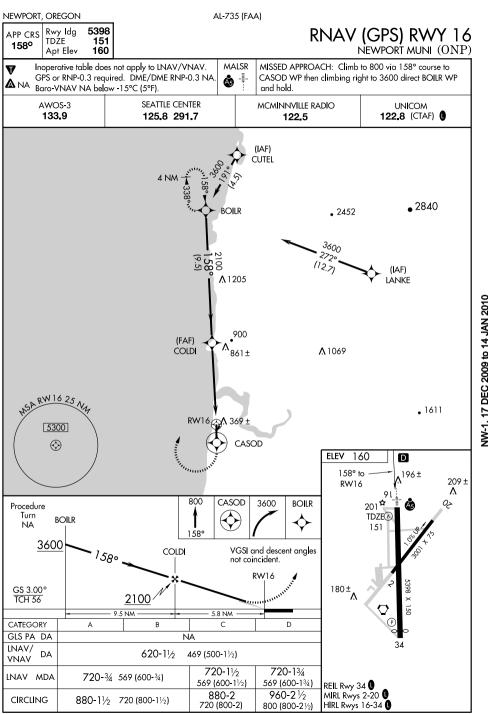


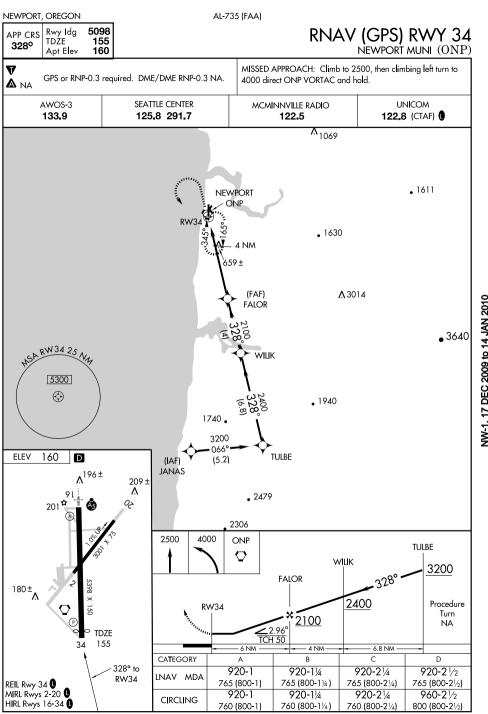


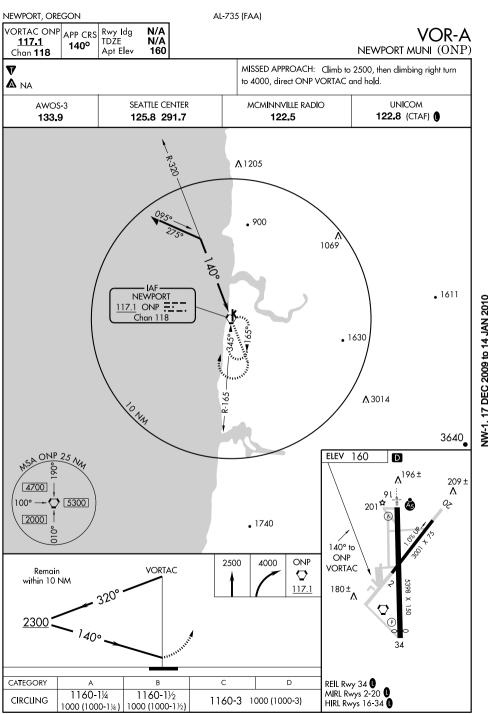


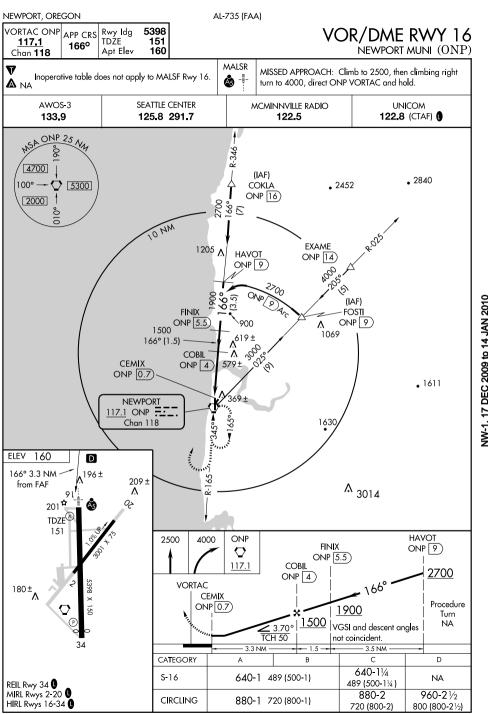


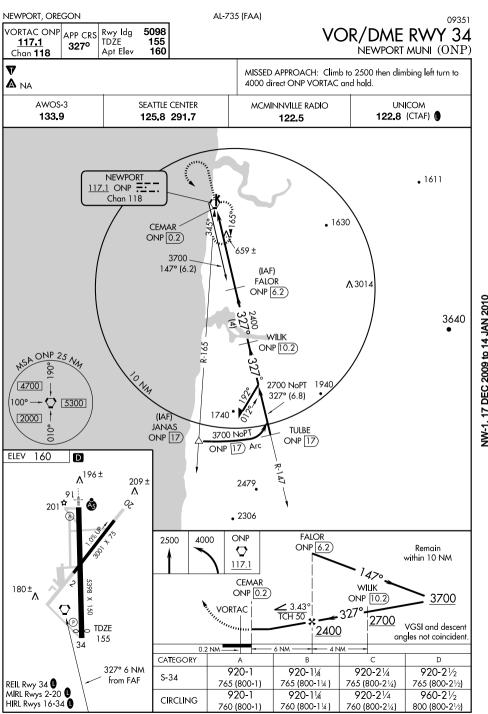


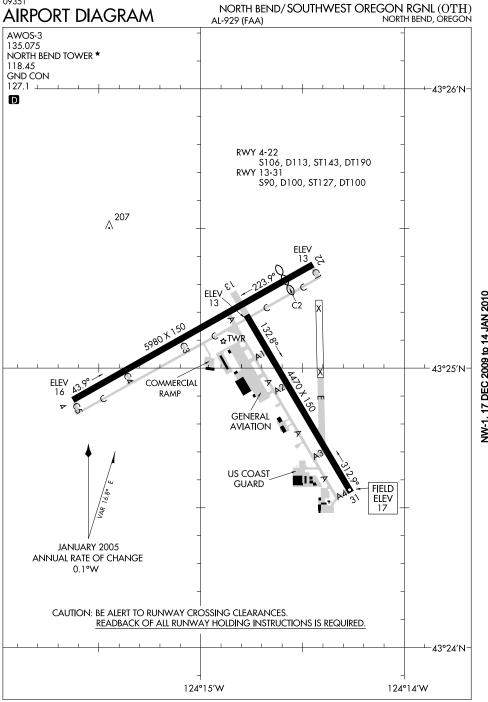


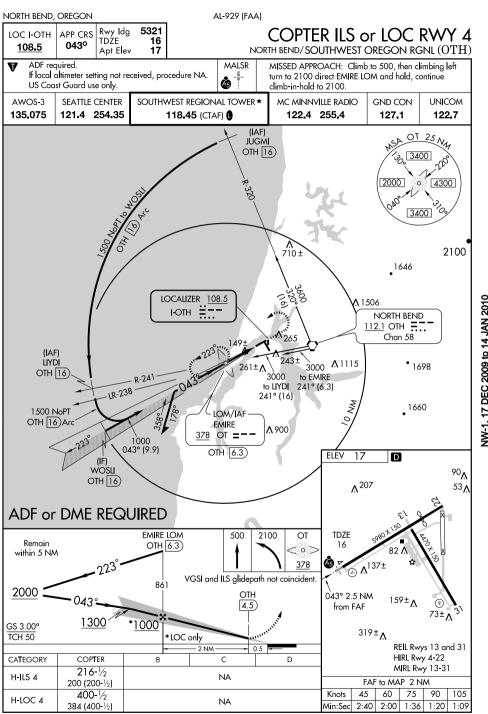


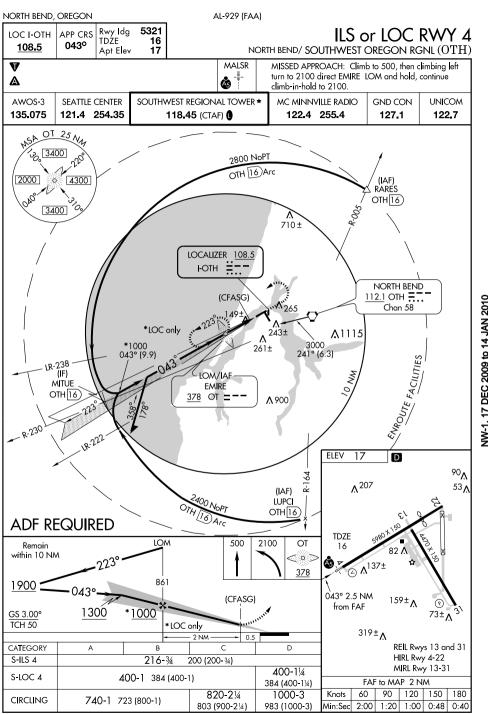


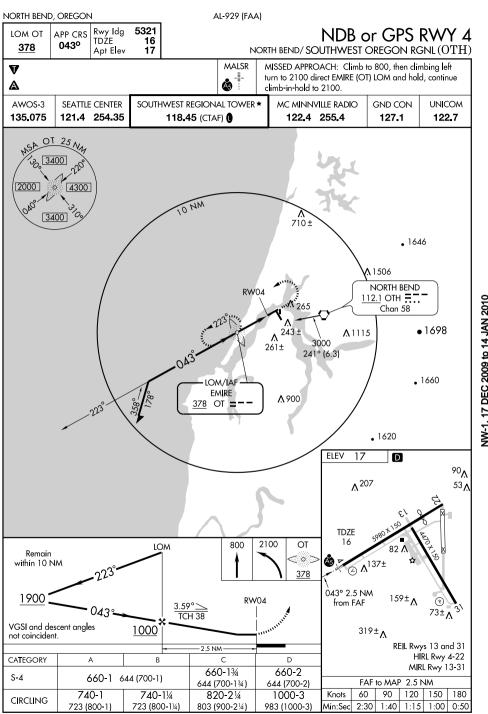


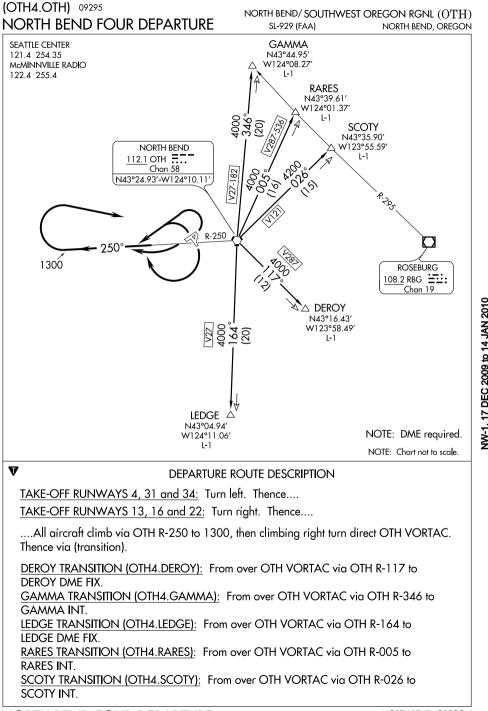


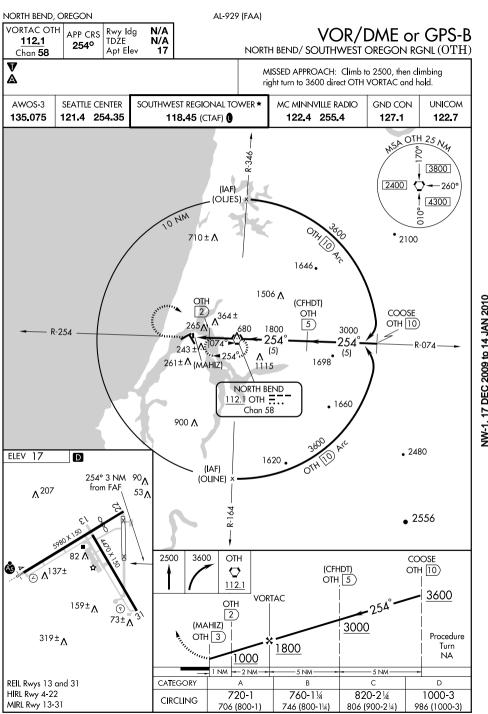


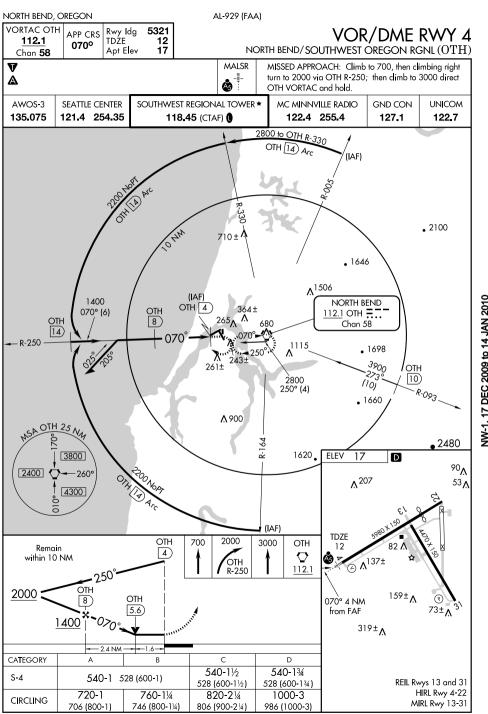


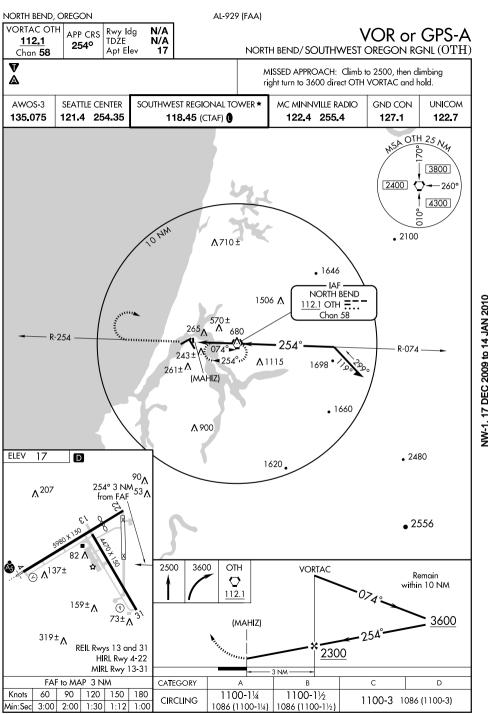


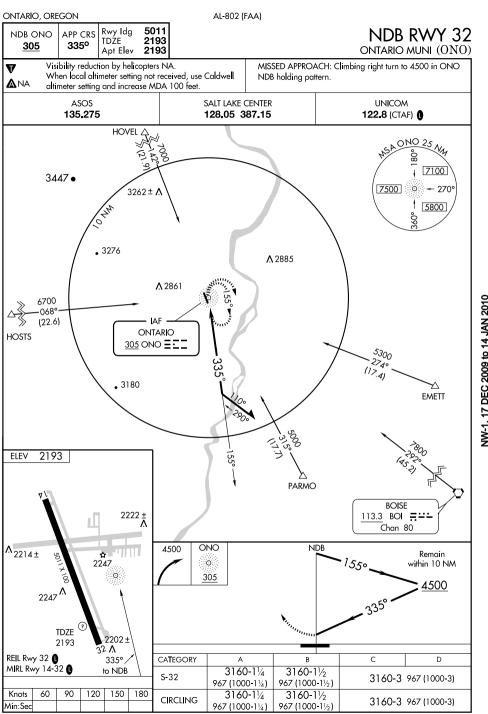




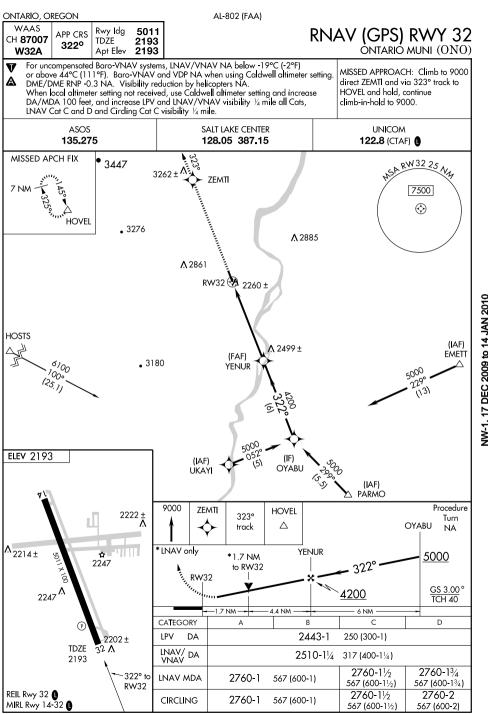


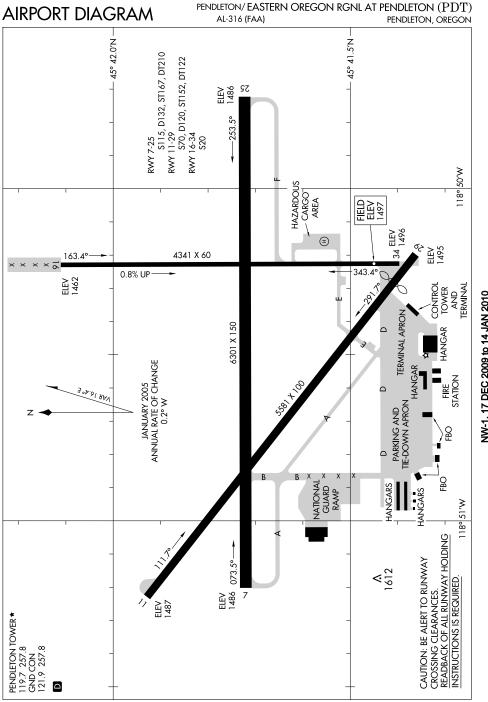






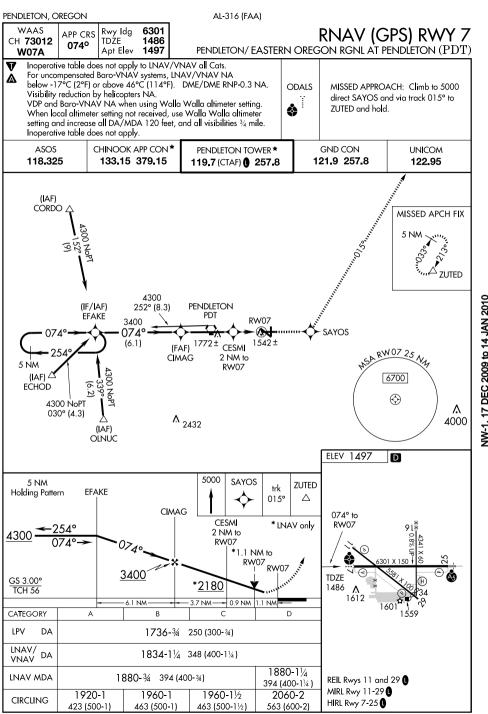
AL-802 (FAA) ONTARIO, OREGON WAAS 5011 Rwy Idg RNAV (GPS) RWY 14 APP CRS CH **78207** TDŹE 2193 1420 ONTARIÓ MUNI (ONO) W14A Apt Elev 2193 Baro-VNAV NA when using Caldwell altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 45°C (113°F). DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Caldwell altimeter setting and increase DA/MDA 100 feet, and increase IPV visibility ½ mile all Cats, LNAV/VNAV visibility½ mile all Cats, LNAV Cat C and D ¼ mile, Circling Cat C ¼ mile. MISSED APPROACH: Climb to 9000 direct TUCUB and right turn via 241° track to LUYID and right turn via 342° track to HOVEL and hold. ASOS SALT LAKE CENTER UNICOM 135.275 128.05 387.15 122.8 (CTAF) ( NEYGI 4843 7 NM 9000 HOVEL 223° (10) 4590 9000 042° 101 PIYID 🛆 (IF) JIRBU NW-1 17 DEC 2009 to 14 JAN 2010 KODGE 4500 142° (3.2) **3447** 3262 ± 3139 ± NSA RW 14 25 NZ (FAF) ZEMTI 7600 TEMAE TO HOVEL **FROM** 3.8 NM  $\bigcirc$ .....342° ..... to RW14 . 3276 **∆** 2885 2458 ± Λ 2861 RW14 2193 **ELEV** ,,,,,,,,,, 241°,,,,,,, 142° to . 3180 **TUCUB** RW14 LUYID MISSED APCH Procedure 9000 **TDZE** TUCUR LUYID HOVEL Turn 2193 NA Δ JIRBU 241° 342° 2222 ± \* LNAV only **KODGE** TFMAF 5500 1420. ZEMTI 3.8 NM to RW14 Λ<sub>2214±</sub> 5000 ŵ 2247 GS 3.00° 4500 3420 TCH 40 3.2 NM 3.2 NM 3.2 NM -3.8 NM 2247 CATEGORY D LPV 2744-2 DA 551 (600-2) LNAV/ DA 2781-2 588 (600-2) VNAV 2202 ± 2720-11/2 2720-13/4 LNAV MDA 2720-1 527 (600-1) 527 (600-11/2) 527 (600-134) 2720-1 2760-1 2760-11/2 2760-2 REIL Rwy 32 1 CIRCLING MIRL Rwy 14-32 ( 527 (600-1) 567 (600-1) 567 (600-11/2) 567 (600-2)

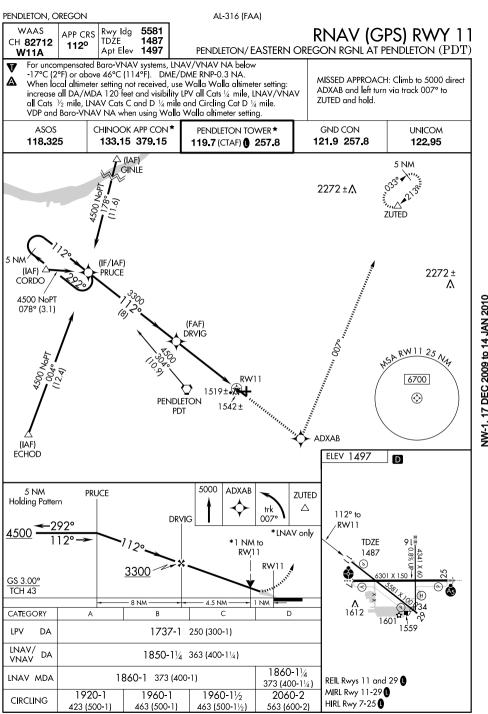


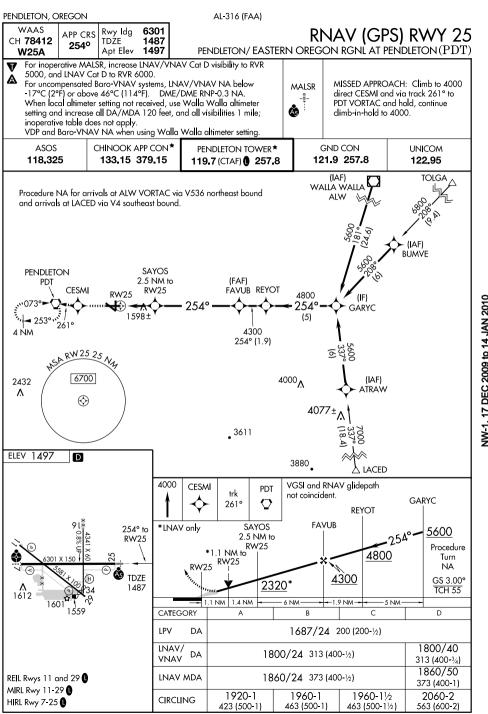


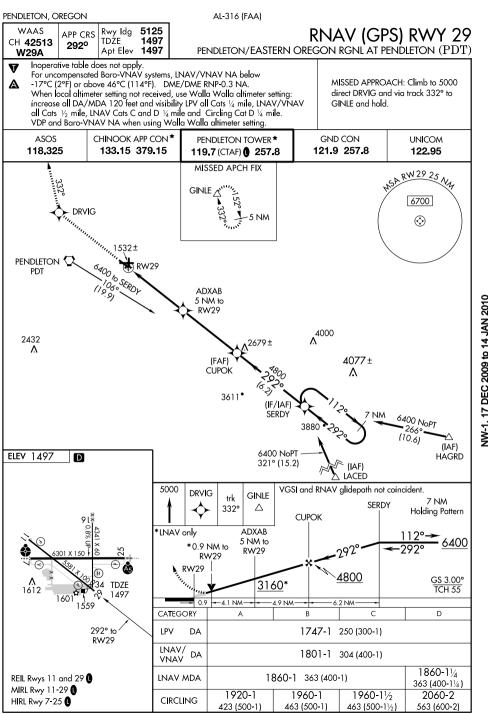
PENDLETON, OREGON AL-316 (FAA) Rwy Ida 6301 ILS or LOC/DME RWY 25 IOC I-PDT APP CRS TDŹE 1487 254° 110.3 PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT) Apt Elev 1497 DME from PDT VORTAC. Simultaneous reception of I-PDT and PDT VORTAC DME required. MALSR MISSED APPROACH: Climb When local altimeter setting not received, use Walla Walla altimeter setting and to 4000 direct PDT VORTAC increase all DA/MDA 120 feet, and S-LOC 25 Cat C/D visibility ¼ mile. and hold, continue climb-in-hold Å For inoperative MALSR when using Walla Walla altimeter setting increase S-ILS 25 visibility all Cats to 1 mile.

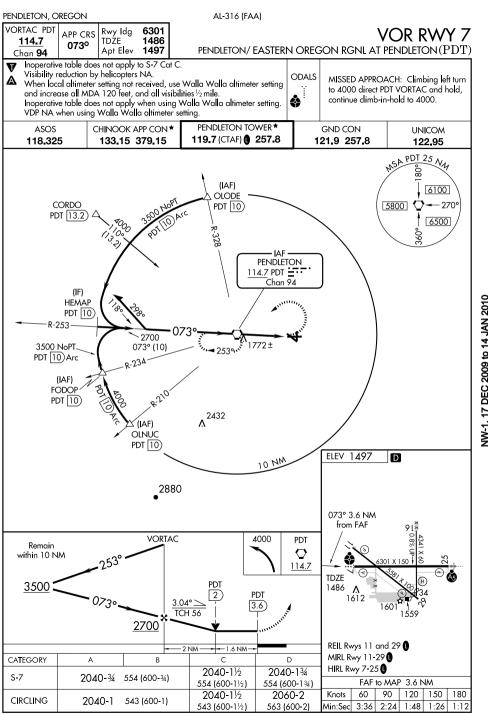
\*\* RVR 1800 authorized with the use of FD or AP or HUD to DA, NA when using Walla Walla altimeter setina. UNICOM ASOS CHINOOK APP CON ★ PENDLETON TOWER \* GND CON 122.95 121.9 257.8 118.325 133.15 379.15 119.7 (CTAF) 0 257.8 IAF-WALLA WALLA POT 20 Arc 116.4 ALW :=.. (IAF) Chan 111 GINIF PDT 20) (IAF) Procedure NA ZUTED for arrivals at PDT 20 AIW VORTAC via (IAF) 8-029 V3.57 northwest LACIB bound. PDT 20) P. P. Po PENDLETON 4090±∧ 114.7 PDT =--NW-1, 17 DEC 2009 to 14, IAN 2010 Chan 94 4197± (IF) GARYC 4300 4800 SAYOS PDT 20 (1.9) 254° (5) PDT 7.1 1656± R-253 <u>-</u> 073° 0749 1598± **-** 253°⋯<sup>i</sup> REYOT ALTERNATE FAVUB 108.4 PSC PDT [15] MISSED PDT [13.1) Chan 21 LOCALIZER 110.3 APCH 4000<u>A</u> % 5218 48 I-PDT <u>∷</u>...· 8 FIX ۸ NSA PDT 25 NA 2432 **GINLE** ^4077± PSC 14.7) Š 3611 15 My 6100 (IAF) 5800 - 270 3880 EYU<u>YA</u> **ELEV 1497** D PDT 20 (IAF) 6500 HEKPI .09 980 PDT 20 4000 PDT VGSI and ILS alidepath **GARYC** REYOT not coincident.  $\Diamond$ PDT 20) **FAVUB** PDT [15) 254° 8.5 NM 9 l×̃ PDT [13.1] 114.7 4341 X 6 from FAF 5600 254° \* LOC only 4300 SAYOS Procedure 9 25 PDT 7.1 4800 PDT Turn 🚳 TDZE 4.6 NA 1487 **^** 1612 4300 GS 3.00° 2320 TCH 55 - 2.5 **-**6 NM -1.9 NM - 5 NM CATEGORY D Α S-ILS 25 \*\* 1687/24 200 (200-1/2) 1860/40 REIL Rwys 11 and 29 1 S-LOC 25 1860/24 373 (400-1/2) 373 (400-3/4) MIRL Rwy 11-29 🗓 1920-1 1960-1 1960-11/2 2060-2 CIRCLING HIRL Rwy 7-25 0 423 (500-1) 563 (600-2) 463 (500-1) 463 (500-11/2)

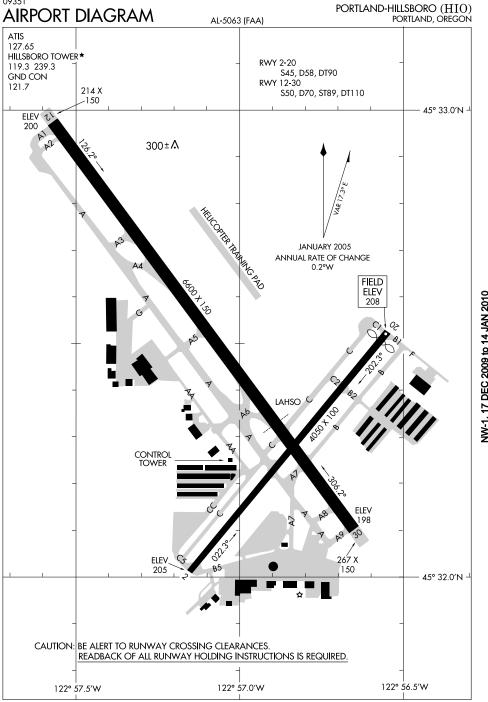












(CANBY7.CANBY) 05356 PORTLAND-HILLSBORO (HIO) CANBY SEVEN DEPARTURE SI-5063 (FAA)

PORTLAND, OREGON

BATTIFGROUND

116.6 BTG **Ξ'':** 

Chan 113

CANBY N45°18.63' W122°45.89'

ATIS 127.65 GND CON

HILLSBORO TOWER★ 119.3 (CTAF) 239.3 PORTLAND DEP CON 126.0 284.6

TAKE-OFF MINIMUMS

121.7

Rwy 2: Standard with minimum climb of 307' per NM to 2700.

Rwy 12: Standard with minimum climb of 308' per NM to 2700. Rwy 20: Standard.

Rwy 30: Standard with minimum climb of 280' per NM to 2700. **NEWBERG** 117.4 UBG ≝ः

Chan 121

TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple roads beginning 246' from DER, 3' right of centerline, up to 15' AGL/220' MSL. Rwy 12: Multiple trees beginning 1,842' from DER, 222' left of centerline, up to 125' AGL/324' MSL.

R-085

Multiple trees beginning 3,629' from DER, 46' right of centerline, up to 143' AGL/332' MSL. Rwy 20: Multiple trees and pole beginning 967' from DER, 118' left of centerline, up to 93' AGL/292' MSL. Vent on hangar 63' from DER, 428' left of centerline, 26' AGL/225' MSL.

Multiple trees and antenna on bldg beginning 965' from DER, 449' right of centerline, up to 74' AGL/273' MSL.

Rwy 30: Multiple trees beginning 1,664' from DER, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from DER, 603' left of centerline, 26' AGL/215' MSL.

NOTE: Chart not to scale.

NW-1, 17 DEC 2009 to 14 JAN 2010

V

#### DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2, 30: Turn right heading 110°, thence . . . .

TAKE-OFF RUNWAY 12: Turn left heading 110°, thence . . . .

TAKE-OFF RUNWAY 20: Turn left heading 090°, thence . . . .

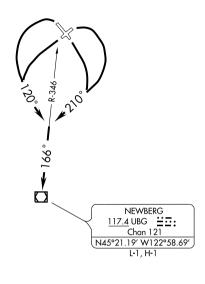
Intercept and proceed via BTG R-175 to CANBY INT. Thence via (assigned route).

(FARM4.UBG) 05356 PORTLAND-HILLSBORO (HIO) FARMINGTON FOUR DEPARTURE SL-5063 (FAA)

PORTLAND, OREGON

ATIS 127 65 GND CON 1217

HILLSBORO TOWER★ 119.3 (CTAF) 239.3 PORTLAND DEP CON 126.0 284.6



## TAKE-OFF MINIMUMS

Rwy 2: Standard with minimum climb of 307' per NM to 2700. Rwys 12, 20: Standard.

Rwy 30: 200-14 or standard with minimum climb of 223' per NM to 500. Alternatively, with standard takeoff minimums and a normal 200' per NM

climb gradient, takeoff must occur no later than 1600' prior to departure end of runway.

## TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple roads beginning 246' from DER, 3' right of centerline, up to 15' AGL/220' MSL. Rwy 12: Multiple trees beginning 1,842' from DER, 222' left of centerline, up to 125' AGL/324' MSL.

Multiple trees beginning 3,629' from DER, 46' right of centerline, up to 143' AGL/332' MSL.

Rwy 20: Multiple trees and pole beginning 967' from DER, 118' left of centerline, up to 93' AGL/292' MSL. Vent on hangar 63' from DER, 428' left of centerline, 26' AGL/225' MSL.

Multiple trees and antenna on bldg beginning 965' from DER, 449' right of centerline, up to 74' AGL/273' MSL.

Rwy 30: Multiple trees beginning 1,664' from DER, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from DER, 603' left of centerline, 26' AGL/215' MSL.

NOTE: Chart not to scale.



### DEPARTURE ROUTE DESCRIPTION

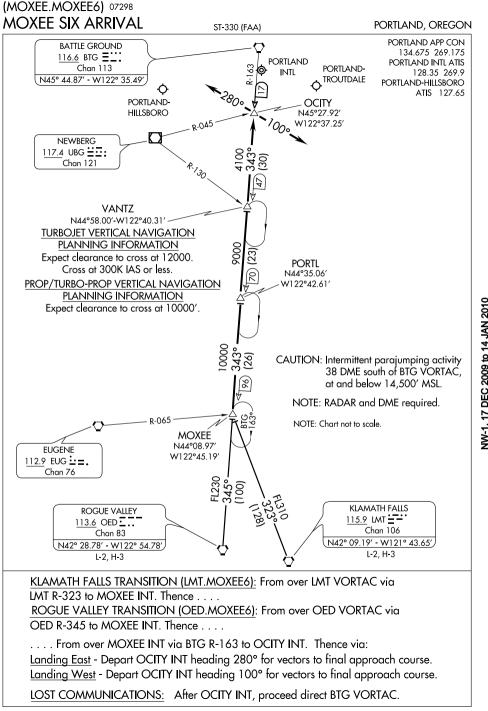
TAKE-OFF RUNWAYS 2, 12: Turn right heading 210°, thence . . . .

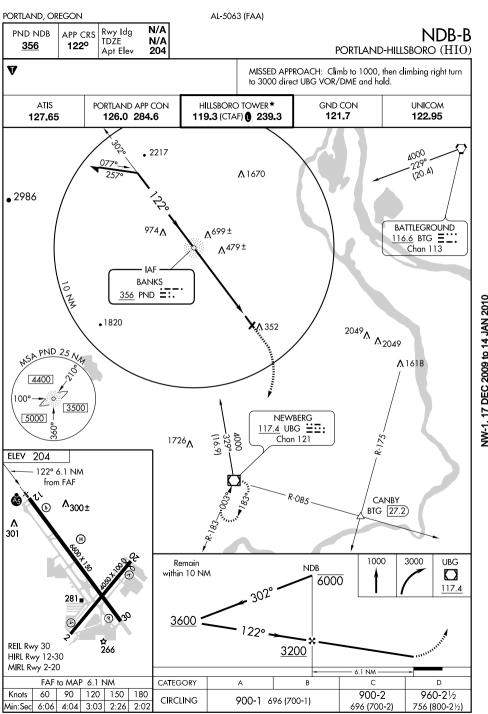
TAKE-OFF RUNWAYS 20, 30: Turn left heading 120°, thence . . . .

. Intercept and proceed via UBG R-346 to UBG VOR/DME. Thence via (assigned route).

(HELNS.HELNS4) 03135 HELNS FOUR ARRIVAL PORTLAND, OREGON ST-330 (FAA) PORTLAND APP CON 124.35 299.2 PORTLAND INTL ATIS 128.35 269.9 SEATTLE PORTLAND-HILLSBORO ATIS 116.8 SEA :-127.65 Chan 115 N47°26.12′-W122°18.58′ L-1, H-1 10000 19700 161° (71) **HELNS** N46°15.42′ W122°18.58′ **KRATR BATTLE GROUND** N46° 05.39′ - W122° 24.17′ 11<u>6.6</u> BTG <u>=∵:</u> NOTE: Maintain the last assigned altitude. Upon Chan 113 receipt of "Descend via the HELNS4": . . . N45°44.87′-W122°35.49 PROP/TURBOPROP: Cross at and maintain 10,000'. TURBOJET: Cross at and maintain 12,000' at 300 K IAS or less. 280° 1100. **PORTLAND** INTL 6 PORTLAND-PORTLAND-TROUTDALE HILLSBORO C **AURORA** STATE NOTE: DME and RADAR required. NOTE: Chart not to scale. SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence.... .... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence.... LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course. LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

NW-1 17 DEC 2009 to 14 JAN 2010





PORTLAND, OREGON AL-5063 (FAA) WAAS 6600 Rwy Idg APP CRS RNAV (GPS) RWY 12 CH **69502** TDŹE 199 1240 PORTLÁND-HILLSBORO (HTO) 204 W12A Apt Elev For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. MISSED APPROACH: Climb to 3000 MALSR If local altimeter setting not received, use Portland Intl altimeter setting and direct ZABAX and via 176° track to increase all DAs/MDAs 60 feet. UBG VOR/DME and hold, continue VDP NA when using Portland Intl altimeter setting å i climb-in-hold to 3000. For inoperative MALSR, increase LPV all Cats visibility to 11/2, and LNAV Cat D visibility 11/4. Baro-VNAV NA when using Portland Intl altimeter setting HILLSBORO TOWER★ ATIS PORTLAND APP CON GND CON UNICOM 127,65 126.0 284.6 119.3 (CTAF) @ 239.3 121.7 122.95 (IF/IAF) DÚCKÁ (IAF) 3700 NOPT (8.1) BATTLE GROUND 2265 4500 2905 BTG 257 \_2217 (26.9) Λ 1670 COUVE 2986 3706 (FAF) DOLLA 2900 123° (3.1) NW-1, 17 DEC 2009 to 14, IAN 2010 . 3294 974 JIKIM 4.2 NM to  $363 \pm$ RW12 . 3534 2049 1820 °  $\Lambda_{\Lambda_{2049}}$ ZABAX Λ1618 RW1225 Ny . 2704 5000 1726 **^** 204 ELEV **NEWBERG** UBG 124° to RW12 VGSI and RNAV glidepath not coincident. 3000 ZABAX UBG 176° **TDZE DUCKA** 5 NM track 12 199 COUVE Holding Pattern Λ<sub>300±</sub> DOLLA JIKIM \*LNAV only 4.2 NM to 301 RW12\*1.2 NM to 123°. RW12 3300 1240 RW12 GS 3.00° 2900 \*1560 TCH 54 7.7 NM 3.9 NM 281 CATEGORY D Α IPV 598-1 DA 399 (400-1) LNAV/ DA 651-1 452 (500-1) VNAV **☆** 266 620-3/4 620-1 620-1/2 421 (500-1/2) LNAV MDA REIL Rwy 30 421 (500-3/4) 421 (500-1) HIRL Rwy 12-30 760-2 CIRCLING 680-11/2 476 (500-11/2) MIRL Rwy 2-20 556 (600-2)

(SCAPO4.SCAPO) 05356 PORTLAND-HILLSBORO (HIO) SCAPO FOUR DEPARTURE SL-5063 (FAA) PORTLAND, OREGON ATIS 127.65 **SCAPO** BATTIFGROUND GND CON N45°45.13' 11<u>6.6</u> BTG **Ξ∵**: 121.7 W123°01.70′ HILLSBORO TOWER★ Chan 113 119.3 (CTAF) 239.3 PORTLAND DEP CON R-250 126.0 284.6 28<sub>1°</sub> 24 LOCALIZER 110.5 I-PDX Chan 42 **NEWBERG** 117.4 UBG **ΞΞ**: Chan 121 TAKE-OFF MINIMUMS

TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple roads beginning 246' from DER, 3' right of centerline, up to 15' AGL/220' MSL.

Rwy 12: Multiple trees beginning 1,842' from DER, 222' left of centerline, up to 125' AGL/324' MSL. Multiple trees beginning 3,629' from DER, 46' right of centerline, up to 143' AGL/332' MSL. Rwy 20: Multiple trees and pole beginning 967' from DER, 118' left of centerline, up to 93' AGL/292' MSL.

Rwy 2: Standard.

to 2700. Rwy 20: Standard.

Rwy 12: Standard with minimum climb of 308' per NM

Rwy 30: 200-11/4 or standard with minimum climb of

223' per NM to 2700.

Vent on hangar 63' from DER, 428' left of centerline, 26' AGL/225' MSL. Multiple trees and antenna on bldg beginning 965' from DER, 449' right of centerline, up to

74' AGL/273' MSL.

Rwy 30: Multiple trees beginning 1,664' from DER, 623' right of centerline, up to 194' AGL/363' MSL. Pole 702' from DER, 603' left of centerline, 26' AGL/215' MSL.

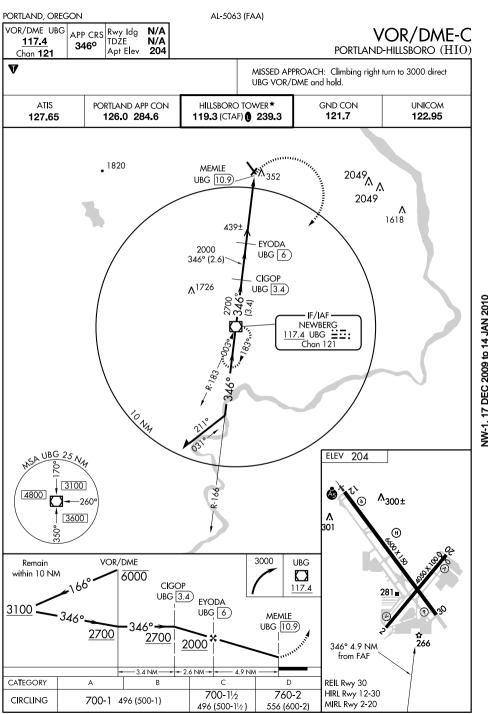
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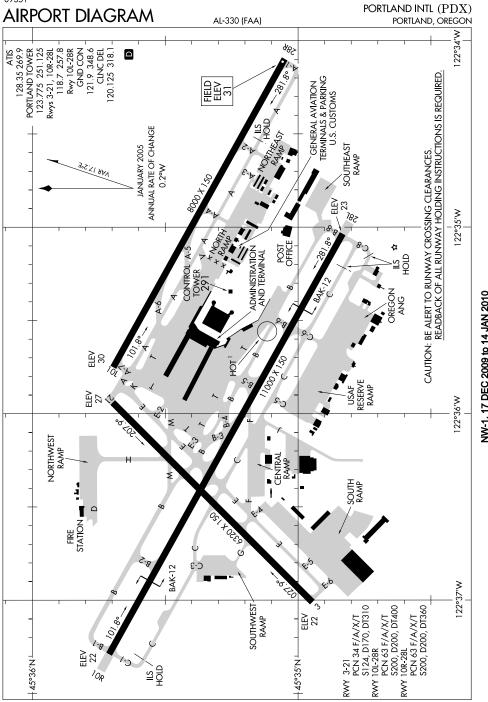
#### DEPARTURE ROUTE DESCRIPTION

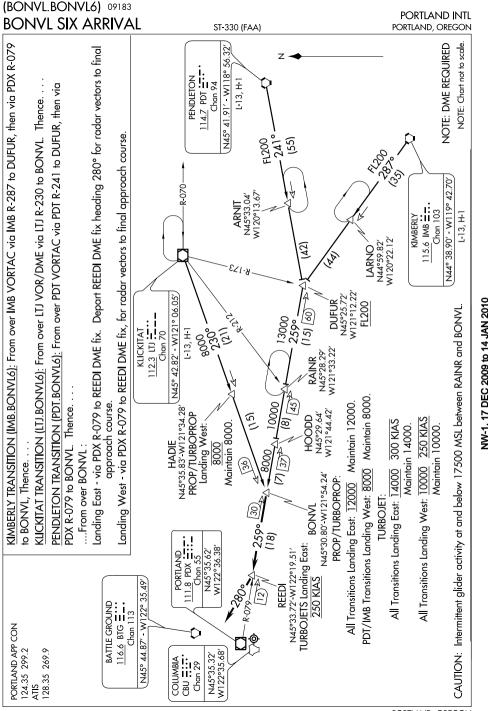
TAKE-OFF RUNWAYS 2, 12, AND 20: Turn left heading 280°, thence . . . .

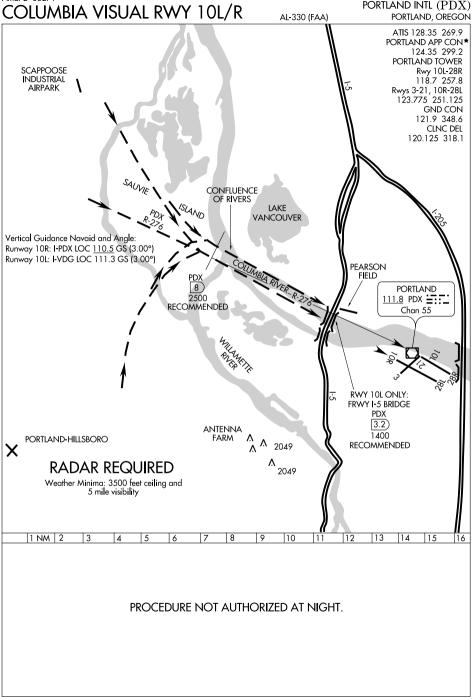
TAKE-OFF RUNWAY 30: Climb via heading 303°, thence . . . . .... Intercept and proceed via UBG R-334 to SCAPO INT, thence via (assigned route).

NW-1, 17 DEC 2009 to 14 JAN 2010



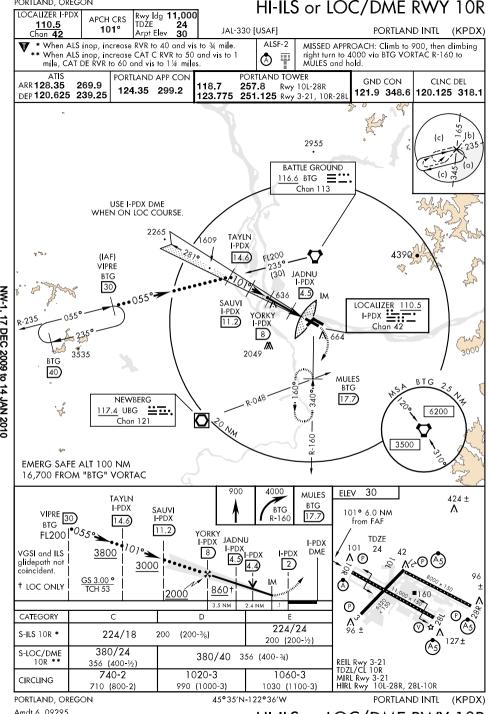


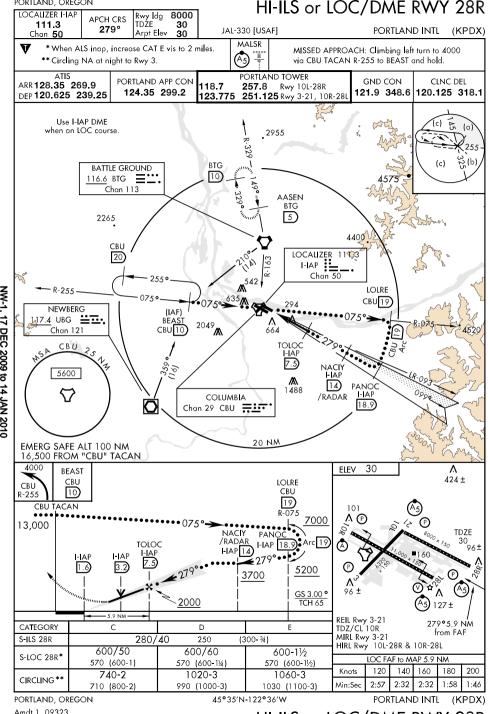




(HELNS.HELNS4) 03135 HELNS FOUR ARRIVAL PORTLAND, OREGON ST-330 (FAA) PORTLAND APP CON 124.35 299.2 PORTLAND INTL ATIS 128.35 269.9 SEATTLE PORTLAND-HILLSBORO ATIS 116.8 SEA :-127.65 Chan 115 N47°26.12′-W122°18.58′ L-1, H-1 10000 19700 161° (71) **HELNS** N46°15.42′ W122°18.58′ **KRATR BATTLE GROUND** N46° 05.39′ - W122° 24.17′ 11<u>6.6</u> BTG <u>=∵:</u> NOTE: Maintain the last assigned altitude. Upon Chan 113 receipt of "Descend via the HELNS4": . . . N45°44.87′-W122°35.49 PROP/TURBOPROP: Cross at and maintain 10,000'. TURBOJET: Cross at and maintain 12,000' at 300 K IAS or less. 280° 1100. **PORTLAND** INTL 6 PORTLAND-PORTLAND-TROUTDALE HILLSBORO C **AURORA** STATE NOTE: DME and RADAR required. NOTE: Chart not to scale. SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence.... .... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence.... LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course. LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

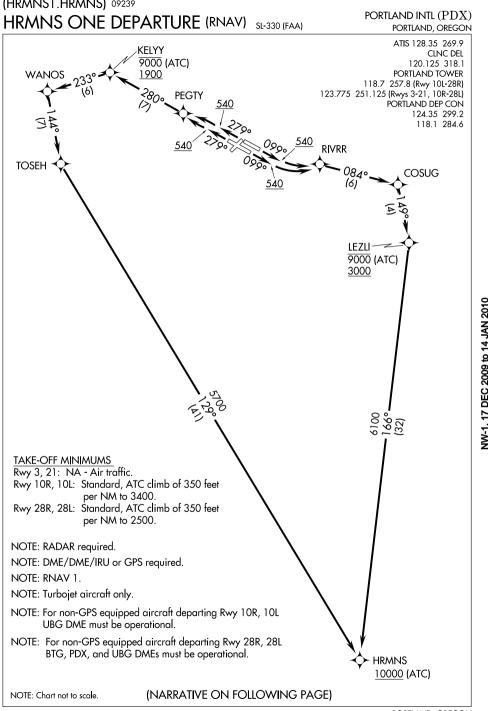
NW-1 17 DEC 2009 to 14 JAN 2010





PORTLAND, OREGON HI-TACAN RWY 10R Rwy Idg 11,000 TDZE 24 TACAN CBU APCH CRS Chan **29** 106° JAL-330 [USAF] PORTLAND INTL (KPDX) Arpt Elev 30 ALSF-2 MISSED APPROACH: Climb to 4000 via CBU TACAN \* When ALS inop, increase CAT C RVR to 50 and vis to 1 mile. (Ā) R-099 to WITTY/CBU 10 DME and hold. ATIS PORTLAND TOWER PORTLAND APP CON GND CON CLNC DEL ARR 128.35 269.9 118.7 257.8 Rwy 10L-28R 124.35 299.2 121.9 348.6 120 125 318 1 DEP 120,625 239,25 123.775 251.125 Rwy 3-21, 10R-28L R-286 (IAF) MARGO CBU 2955 • 35) CBU 45) BATTLE GROUND 116.6 BTG CBU 20) COLUMBIA  $\Pi$ Chan 29 CBU CBU WITTY 5 CBU Λ" 664 10 2049 🗥 CBU 5700 ⋒ CBU 1488 15 20 NM EMERG SAFE ALT 100 NM 16,500 4000 **ELEV** 30 ۸ WITTY MARGO R-286 424 ± CBU CBU 106° to 10 35) R-099 TACAN 20 FL200 100 101 TDZE 11 ∧ (P) 24 6000 **TACAN** 96± (Ā) 3500 1700 600 ^° 96 ± 127± CATEGORY С  $(A_5)$ 380/24 S-10R \* 380/50 356 (400 - 1)REIL Rwy 3-21 TDZL/CL 10R 356 (400-1/2) 740-2 1020-3 1060-3 MIRL Rwy 3-21 **CIRCLING** HIRL Rwy 10L-28R, 28L-10R 990 (1000-3) 710 (800-2) 1030 (1100-3) 45°35′N-122°36′W (KPDX) PORTLAND, OREGON PORTLAND INTL Oria 00323

NW-1, 17 DEC 2009 to 14 JAN 2010



HRMNS ONE DEPARTURE (RNAV) SL-330 (FAA)

PORTLAND INTL (PDX) PORTLAND, OREGON

V

(HRMNS1.HRMNS) 09239

# DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 149° track to cross LEZLI at or below 9000 (ATC)/3000, then via 166° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 149° track to cross LEZLI at or below 9000 (ATC)/3000, then via 166° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540 feet, then left turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 129° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540 feet, then right turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to

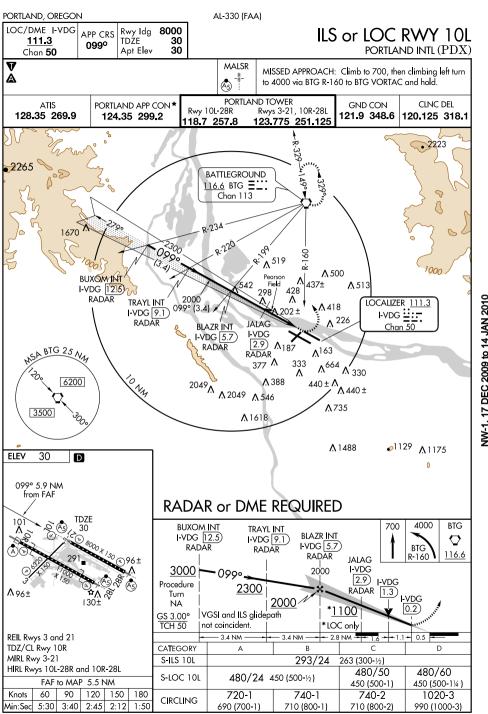
Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline,

WANOS, and via 144° track to TOSEH, and via 129° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence.... ....maintain assigned altitude, expect filed altitude 10 minutes after departure.

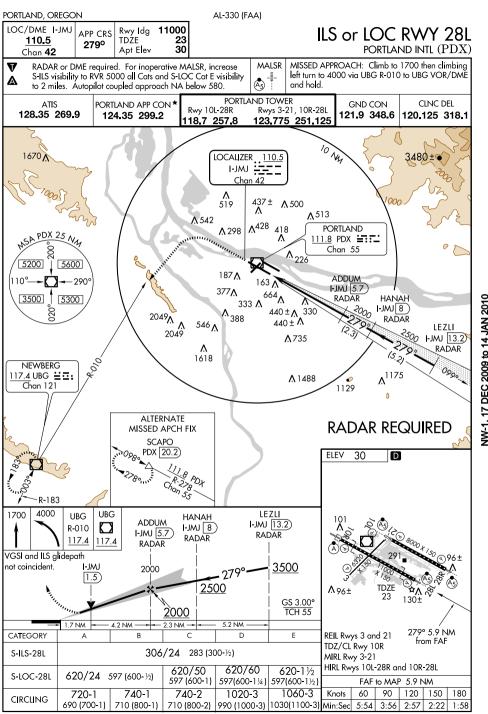
#### up to 17' AGL/60' MSL. Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL

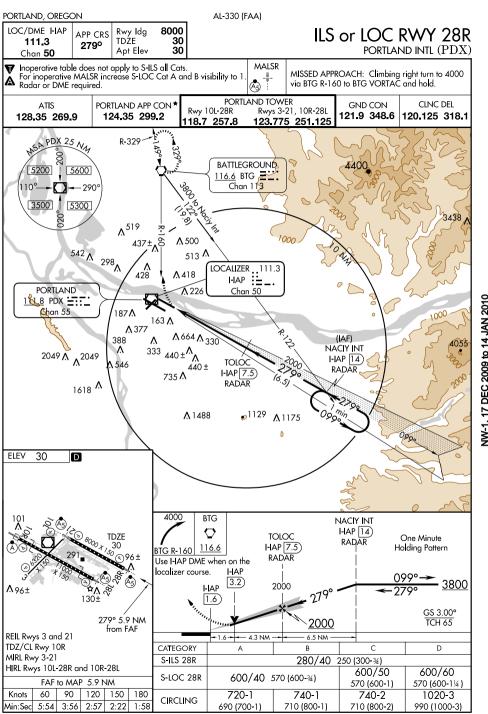
TAKE-OFF OBSTACLE NOTES

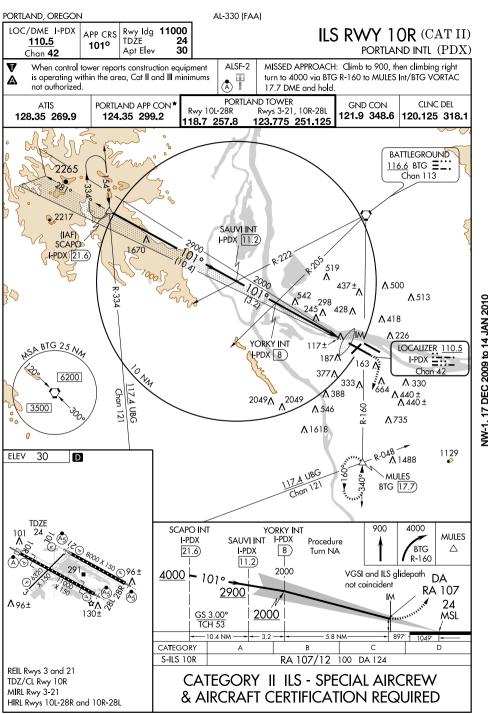
Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL. Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.



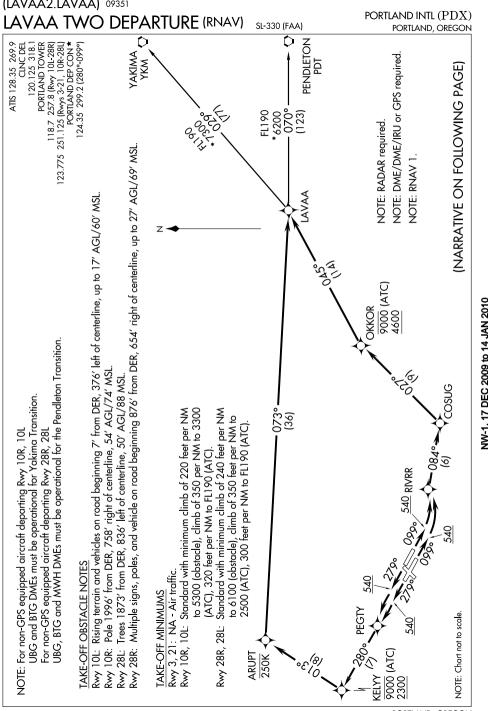
AL-330 (FAA) PORTLAND, OREGON LOC/DME I-PDX Rwy Ida 11000 ILS or LOC RWY 10R APP CRS TDŹE 24 110.5 101° PORTLAND INTL (PDX) Apt Elev 30 Chan 42 MISSED APPROACH: Climb to When control tower reports construction equipment is operating within the area, ALSF-2 Cat II and III minimums not authorized. 900, then climbing right turn to For inoperative ALSF-2 increase S-ILS Cat E visibility to RVR 4000. For inoperative ALSF-2 increase S-LOC Cat E visibility to 3 miles. 4000 via BTG R-160 to MULES Int/BTG VORTAC 17.7 DME For inoperative ALSF-2 increase DME minimums S-LOC 10R Cat E visibility to RVR 6000. and hold PORTLAND TOWER CLNC DEL PORTLAND APP CON\* GND CON **ATIS** Rwy 10L-28R Rwys 3-21, 10R-28L 124.35 299.2 121.9 348.6 128.35 269.9 120.125 318.1 118.7 257.8 123,775 251,125 **BATTLEGROUND** SAUVI INT 116.6 BTG **Ξ''**: (IAF) I-PDX 11.2 29<sub>00</sub> SCAPO 0% J-PDX 21.6 R-222 8.50s 2000 **∧** 500 437±∧ 010 **∆**513 Λ418 NW-1, 17 DEC 2009 to 14 .IAN 2010 YORKY INT **∆** 226 IADNI I-PDX 8 LOCALIZER 110.5 I-PDX I-PDX 163**/** 187 Chan 42 BTG 25 Ny 333**V**  $\Lambda 330$ 388 **∧** 440 ± ^<sup>2049</sup> 2049∧ 'n<sub>440 ±</sub> **∧** 546 9 6200 Chan 121 117.4 곺 Λ735 **∧** 1618 , UBC 3500 R-048 1129 **∧** 1488 117.4 UBG MULES BTG [17.7) Ţ ELEV 30 D Chan SCAPO INT **SAUVI INT** 4000 900 101° 5.9 NM I-PDX 21.6 I-PDX **MULES** from FAF YORKY INT 11.2 BTG Δ JADNU I-PDX 8 4000 R-160 I-PDX 101°**~** 2000 \* LOC only 4.5) I-PDX I-PDX Procedure 2900 2.9 2 Turn NA **TDZE** 860 VGSI and ILS glidepath 2000 GS 3.00° 24 TCH 53 not coincident. 10.4 NM 3.2 -3 4 NM-0.8 **Λ**96± CATEGORY В D Е 130± 224/24 S-ILS 10R 224/18 200 (200-1/2) 200 (200-1/2) 860/24 860/40 860-2 860-21/4 860-21/2 S-LOC 10R 836 (900-1/2) 836 (900-3/4) 836 (900-2) REIL Rwys 3 and 21 836 (900-21/4) 836 (900-21/2) TDZ/CL Rwy 10R 860-1 860-11/4 860-21/2 1020-3 1060-3 CIRCLING MIRL Rwy 3-21 830 (900-1) |830 (900-11/4) |830 (900-21/2) | 990 (1000-3) 1030(1100-3) HIRL Rwys 10L-28R and 10R-28L DME MINIMUMS FAF to MAP 5.9 NM S-LOC 10R 380/24 356 (400-1/2) 380/40 356 (400-34) 60 90 120 150 180 720-1 740-1 1020-3 1060-3 Knots 740-2 CIRCLING 1:58 Min:Sec 5:54 3:56 2:57 2:22 710 (800-1) 710 (800-2) 990 (1000-3) 1030(1100-3)





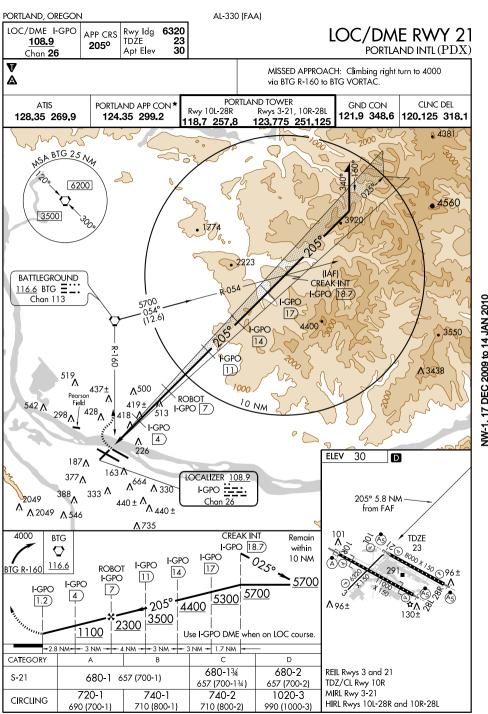


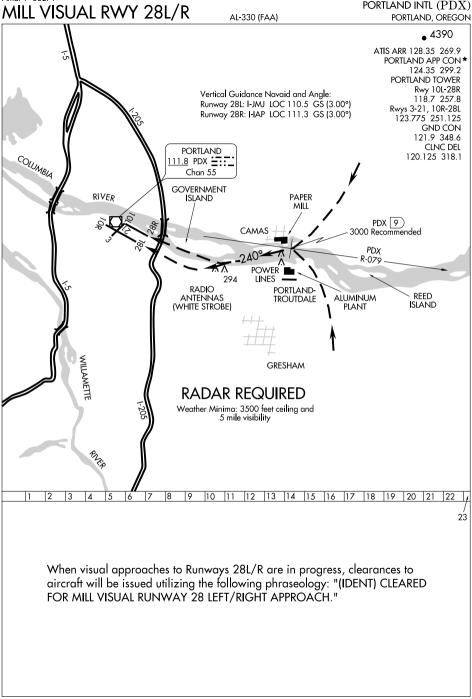
PORTLAND, OREGON AL-330 (FAA) LOC/DME I-PDX Rwy Idg 11000 ILS RWY 10R (CAT III) APP CRS TDŹE 24 110.5 1010 PORTLAND INTL (PDX) Apt Elev 30 Chan 42 ALSF-2 MISSED APPROACH: Climb to 900, then climbing right When control tower reports construction equipment is operating within the area, Cat II and III minimums turn to 4000 via BTG R-160 to MULES Int/BTG VORTAC Ŧ A (Å) not authorized. 17.7 DME and hold. PORTLAND TOWER CLNC DEL PORTLAND APP CON\* ATIS GND CON Rwy 10L-28R Rwys 3-21, 10R-28L 121.9 348.6 128.35 269.9 124.35 299.2 120,125 318,1 118.7 257.8 123.775 251.125 BATTLEGROUND 116.6 BTG =::: Chan 113 SAUVI INT (IAF) I-PDX 11.2 SCAPO R-222 1-PDX 21.6) **∧**<sup>519</sup> 437± **∆** 500 ∆<sup>542</sup> **∆**513 NW-1, 17 DEC 2009 to 14, IAN 2010 ۸<sup>298</sup> **∧** 428 **∧**418 **∆** 226 YORKY INT A BTG 25 Ny 117± LOCALIZER 110.5 4-PDX 8 187 I-PDX 63 **A** 377 / 1664 A440 ± , 333**V** 6200 **1** 330 Chan 121 117.4 UBG ۸<sup>2049</sup> 388 2049∧ Λ<sub>440 ±</sub> **∆** 546 3500 **∧**735 1618 € 1129 30 **ELEV** D **⊼** 1⊿88 UBG **MULES** BTG 17.7) Chan 900 4000 SCAPO INT YORKY INT MULES I-PDX I-PDX SAUVI INT Procedure BTG Δ 8 21.6 I-PDX Turn NA R-160 11.2) 2000 VGSI and ILS glidepath 4000 •101°not coincident. 2900 121 24 20Ó0 GS 3.00° MSL 1.00 € A 96 ± TCH 53 130± 10 4 NM 5 8 NM-CATEGORY S-ILS 10R CAT III a RVR 07 CAT III b RVR 06 S-ILS 10R S-ILS 10R CAT III c REIL Rwys 3 and 21 CATEGORY III ILS - SPECIAL AIRCREW TDZ/CL Rwy 10R MIRL Rwy 3-21 & AIRCRAFT CERTIFICATION REQUIRED HIRL Rwys 10L-28R and 10R-28L

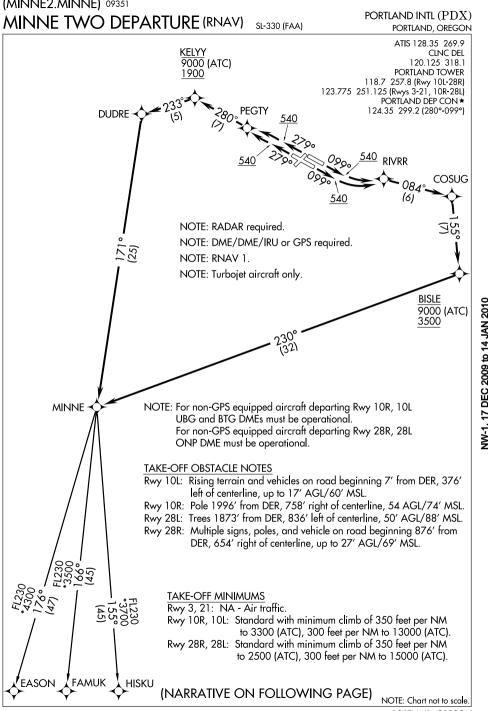


(LAVAA2.LAVAA) 09351 PORTLAND INTL (PDX) LAVAA TWO DEPARTURE (RNAV) SL-330 (FAA) PORTLAND, OREGON V DEPARTURE ROUTE DESCRIPTION TAKE-OFF RUNWAY 10R: Climb heading 099° to 540, then left turn direct RIVRR, then via track 084° to COSUG, then via track 027° to cross OKKOR at or below 9000/4600, then via track 045° to LAVAA, thence.... TAKE-OFF RUNWAY 10L: Climb heading 099° to 540, then left turn direct RIVRR, then via track 084° to COSUG, then via track 027° to cross OKKOR at or below 9000/4600, then via track 045° to LAVAA, thence.... TAKE-OFF RUNWAY 28R: Climb heading 279° to 540, then left turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/2300, then right turn via track 013° to ARUPT, then via track 073° to LAVAA, thence.... TAKE-OFF RUNWAY 28L: Climb heading 279° to 540, then right turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/2300, then right turn via track 013° to ARUPT, then via track 073° to LAVAA, thence.... NW-1, 17 DEC 2009 to 14 JAN 2010 ....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

PENDLETON TRANSITION (LAVAA2.PDT) YAKIMA TRANSITION (LAVAA2.YKM)







(MINNE2.MINNE) 09351 PORTLAND INTL (PDX) MINNE TWO DEPARTURE (RNAV) SI-330 (FAA) PORTLAND, OREGON V DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540, then left turn direct to RIVRR, then via track 084° to COSUG, then via track 155° to cross BISLE at or below 9000/3500. then via track 230° to MINNE, thence.... TAKE-OFF RUNWAY 10L: Climb heading 099° to 540, then left turn direct RIVRR, then

via track 084° to COSUG, then via track 155° to cross BISLE at or below 9000/3500, then via track 230° to MINNE, thence.... TAKE-OFF RUNWAY 28R: Climb heading 279° to 540, then left turn direct PEGTY, then

via track 280° to cross KELYY at or below 9000/1900, then via track 233° to DUDRE, then via track 171° to MINNE, thence.... TAKE-OFF RUNWAY 28L: Climb heading 279° to 540, then right turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/1900, then via track 233° to DUDRE.

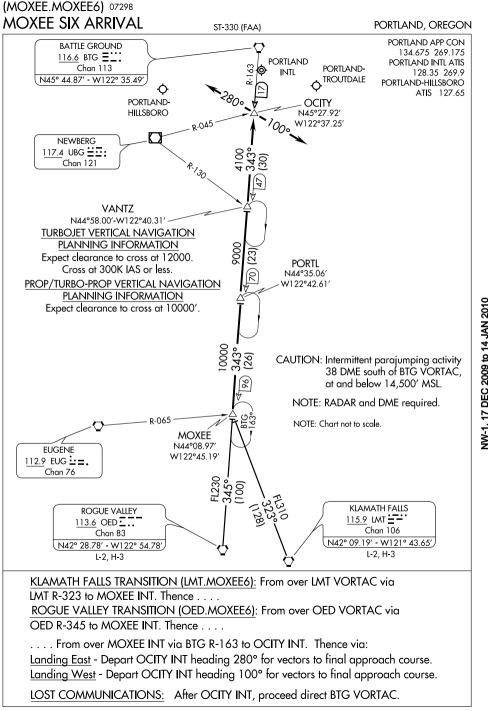
then via track 171° to MINNE, thence.... ....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after

NW-1, 17 DEC 2009 to 14 JAN 2010

departure.

FAMUK TRANSITION (MINNE2.FAMUK) HISKU TRANSITION (MINNE2.HISKU)

EASON TRANSITION (MINNE2.EASON)



(PILD6.BIG) 09015 PORTLAND INTL (PDX) PORTLAND SIX DEPARTURE SL-330 (FAA) PORTLAND, OREGON ATIS 128.35 269.9 **SEATTLE** 116.8 SEA :\_ CLNC DEL 120.125 318.1 Chan 115 OLYMPIA\_ PORTLAND TOWER N47°26.12′-W122°18.58′ 113.4 OLM .-.. 118.7 257.8 (Rwy 10L-28R) L-1, H-1 123.775 251.25 (Rwys 3-21, 10R-28L) Chan 81 **TATOOSH** N46°58.30′ PORTLAND DEP CON ★ 112.2 TOU ...-W122° 54 11' 124.35 299.2 Chan 59 L-1, H-1 118.1 284.6 N48°17.99′-W124°37.62′ L-1, H-1 BATTLEGROUND **ASTORIA** 116.6 BTG = ... Chan 113 YAKIMA 114.0 AST :--116.0 YKM **=:=** Chan 87 N45°44.87′-W122°35.49′ Chan 107 N46°09.70′-W123°52.82 L-1. H-1 N46°34.22-W120°26.68′ 1-1 L-13, H-1 KLICKITAT <u>112.3</u> LTJ **∺\_\_** NEWBERG N45°42.81′ R-055 W121°06.05' 117.4 UBG **∺** .: R-085 L-13, H-1 **PENDLETON** N45°21.19′-W122°58.69′ 114.7 PDT =--L-1. H-1 Chan 94 **NEWPORT** N45°41.91′-W118°56.32′ 117.1 ONP ... L-13. H-1 Chan 118 N44°34.52′-W124°03.64′ L-1, H-1 KIMBERLY 115.6 IMB **∺... EUGENE** 112.9 EUG :=. N44°38.90′-W119°42.70′ Chan 76 DESCHUTES L-13. H-1 N44°07.25′-W123°13.37′ 117.6 DSD **...**: L-1, H-1 Chan 123 NORTH BEND N44°15.17′-W121°18.21 112.1 OTH ... L-13. H-1 Chan 58 N43°24.93′-W124°10.11′ LAKEVIEW 112.0 LKV === L-1 **ROGUE VALLEY** KLAMATH FALLS Chan 57 113.6 OED ... 115.9 LMT == N42°29.57′-W120°30.43′ Chan 83 Chan 106 N42°28.78′-W122°54.78′ N42°09.19′-W121°43.65′ L-11, H-3 L-2, H-3 L-2, H-3 NOTE: Chart not to scale. TAKE-OFF MINIMUMS: Rwy 3: Standard with minimum climb of 400' per NM to 2700. Rwy 21: Standard with minimum climb of 450' per NM to 2900. Rwy 10R: Standard with minimum climb of 375' per NM to 2700. Rwy 10L: Standard with minimum climb of 350' per NM to 2700. Rwy 28L: Standard with minimum climb of 375' per NM to 2900. Rwy 28R: Standard with minimum climb of 350' per NM to 2900. NOTE: RADAR REQUIRED.

NW-1, 17 DEC 2009 to 14 JAN 2010

# PORTLAND SIX DEPARTURE

TAKE-OFF RWY 3: Climb heading 025° to 600 thence....

TAKE-OFF RWY 10L: Climb heading 099° to 500 thence...

TAKE-OFF RWY 10R: Climb heading 099° to 500 thence.... TAKE-OFF RWY 28L: Climb heading 279° to 800 thence....

TAKE-OFF RWY 28R: Climb heading 279° to 800 thence.... TAKE-OFF RWY 21: Climb heading 205° to 500 thence....

...via assigned heading expect radar vectors to assigned route/fix. Maintain 3000, expect filed altitude five minutes after departures.

LOST COMMUNICATIONS: If no contact with ATC within 10 NM of airport. continue climb to assigned altitude and proceed direct BTG VORTAC. Continue climb via BTG R-329 within 10 NM to cross BTG VORTAC: BTG R-355 clockwise R-055 or R-085 clockwise R-115 at or above 5000 feet. Continue climb on course.

#### TAKE-OFF OBSTACLE NOTES: Rwy 3: Signs, tower, trees, and vehicle on road beginning 468' from DER, 28' left of

(PILD6.BIG) 09015

V

centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from DER, 7' left of centerline,

up to 100' AGL/416' MSL. Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

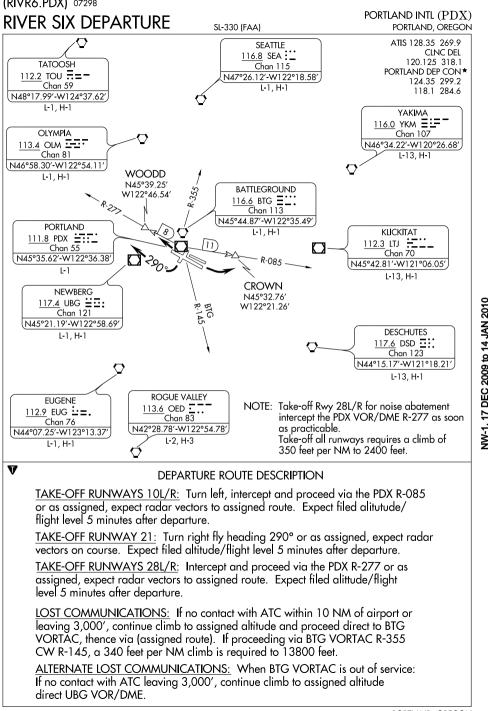
Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL. Rwy 21: Trees beginning 1319' from DER, 155' right of centerline, up to 100' AGL/318' MSL.

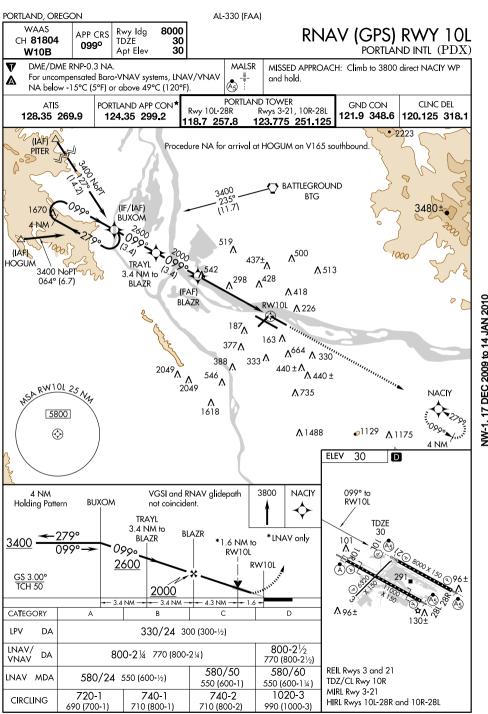
Poles and trees beginning 353' from DER, 36' left of centerline, up to

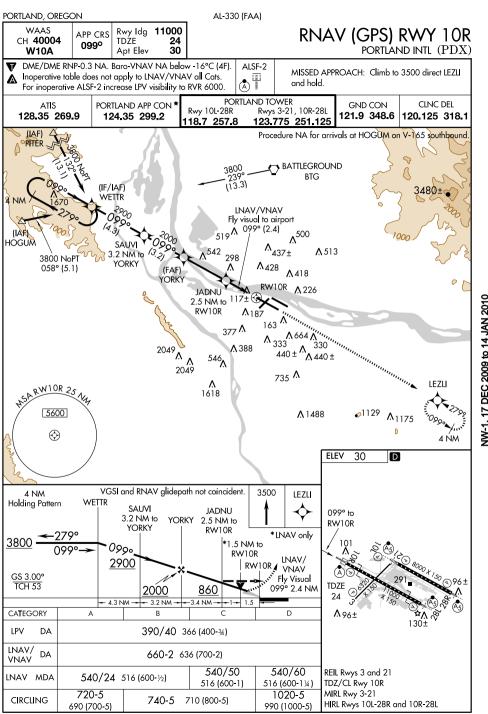
100' AGL/317' MSL.

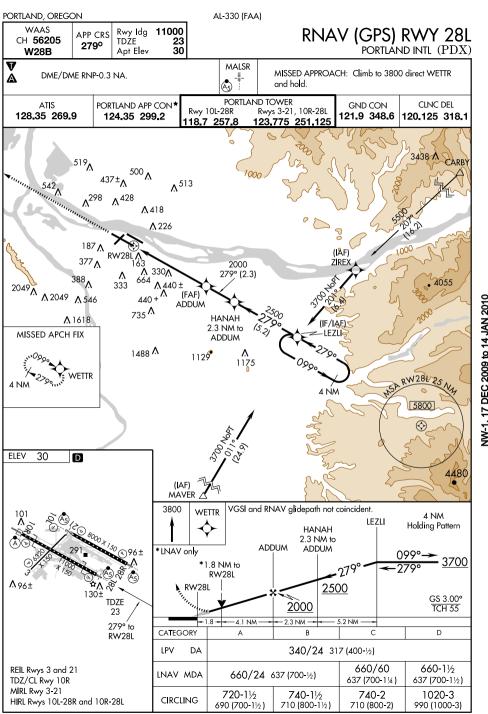
Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

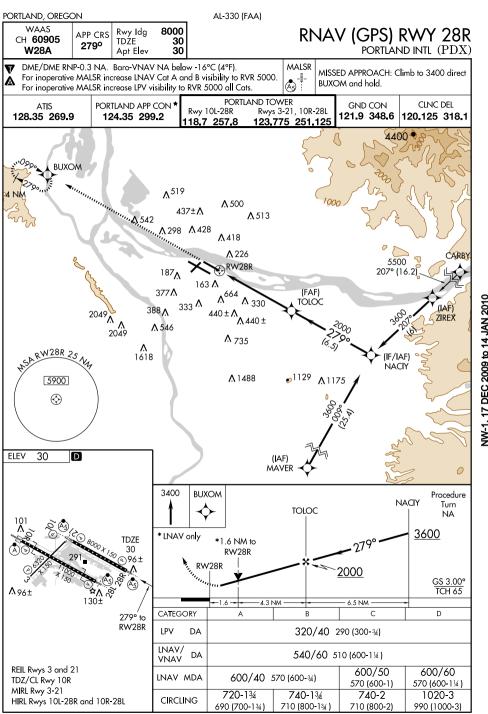
Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

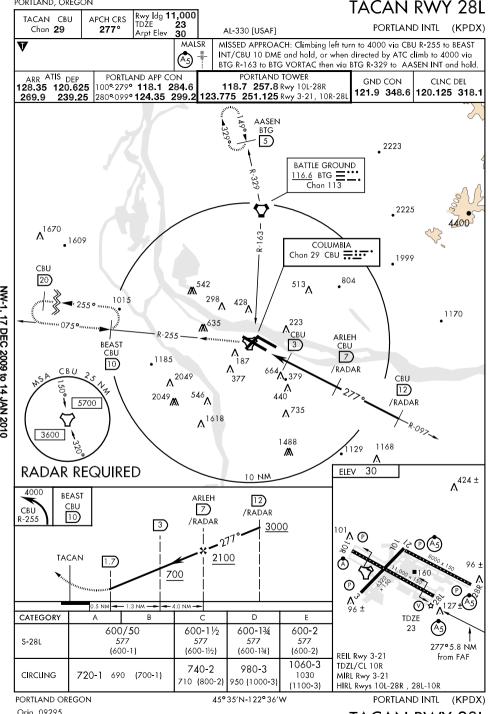


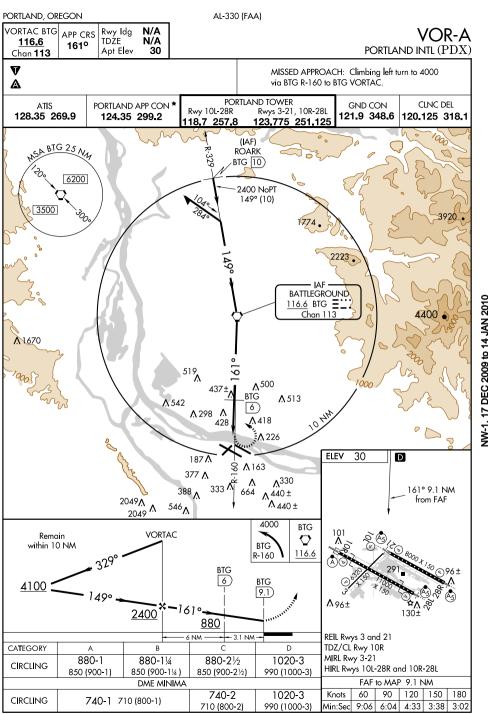


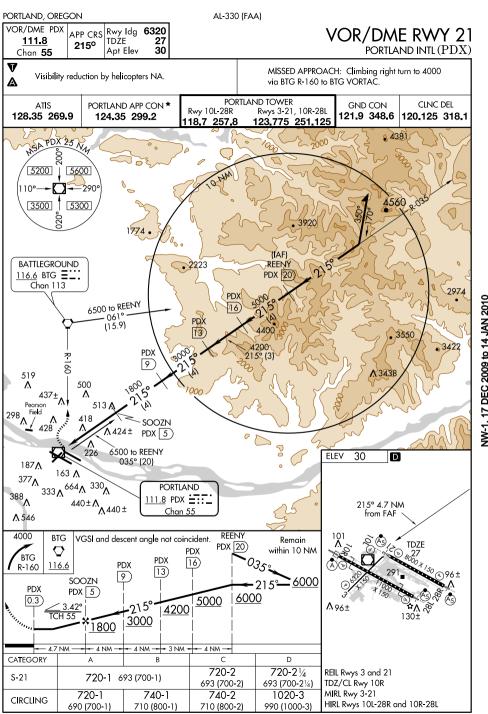


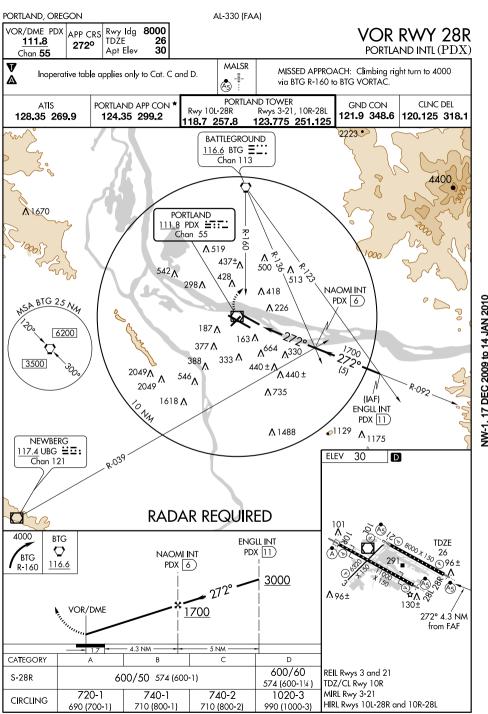


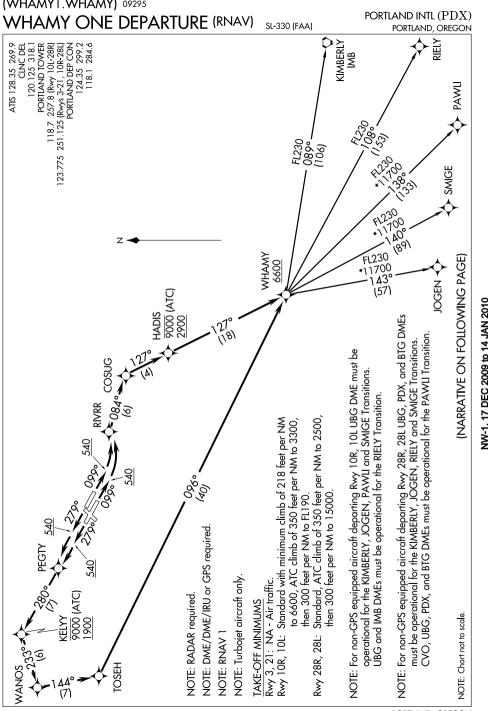












(WHAMY I.WHAMY) 09239 PORTLAND INTL (PDX) WHAMY ONE DEPARTURE (RNAV) SL-330 (FAA) PORTLAND, OREGON

v

## DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 127° track to cross HADIS at or below 9000 (ATC)/2900, then via 127° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 127° track to cross HADIS at or below 9000 (ATC)/2900, then via 127° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540 feet, then left turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 096° track to WHAMY, cross WHAMY

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540 feet, then right turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 096° track to WHAMY, cross WHAMY at or above 6600, thence....

....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

JOGEN TRANSITION (WHAMY1.JOGEN) KIMBERLY TRANSITION (WHAMY1.IMB)

at or above 6600, thence....

PAWLI TRANSITION (WHAMY1.PAWLI)

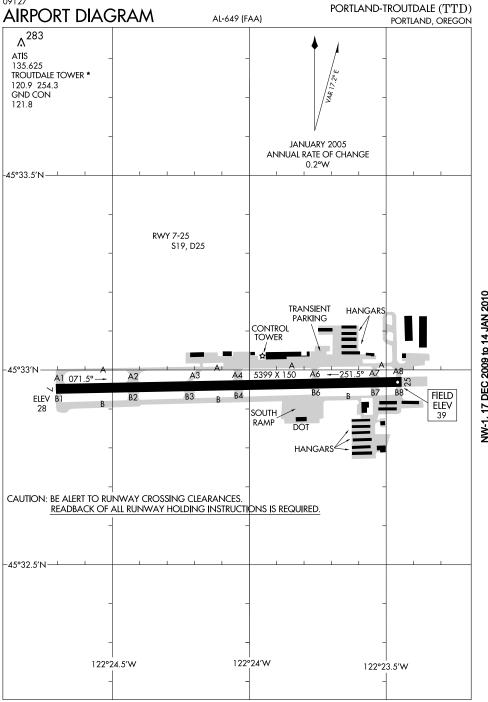
RIELY TRANSITION (WHAMY1.RIELY)

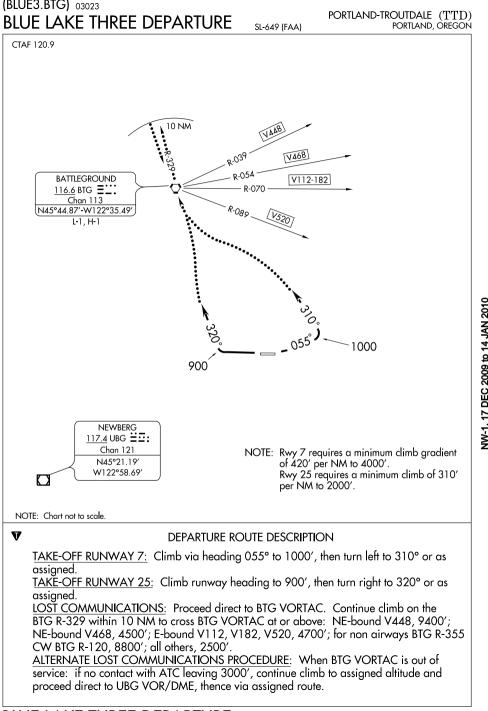
SMIGE TRANSITION (WHAMY1.SMIGE)

TAKE-OFF OBSTACLE NOTES Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL. Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL

Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL. Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

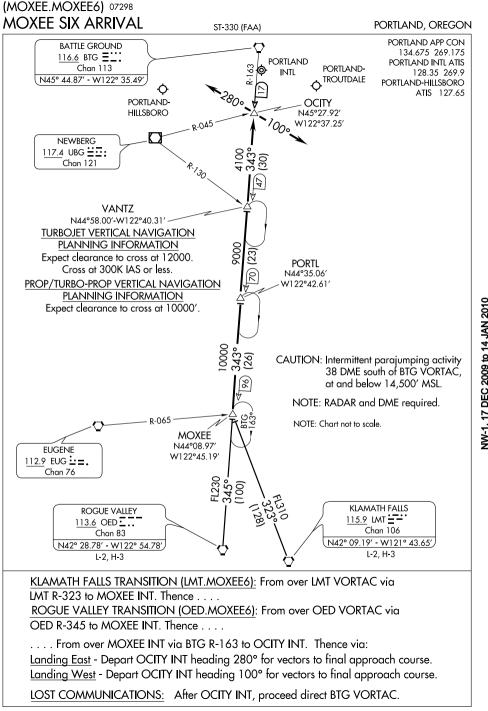
NW-1, 17 DEC 2009 to 14 JAN 2010

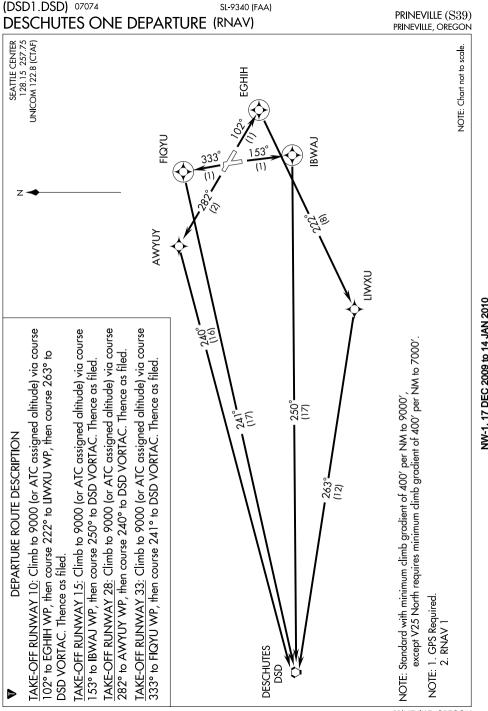


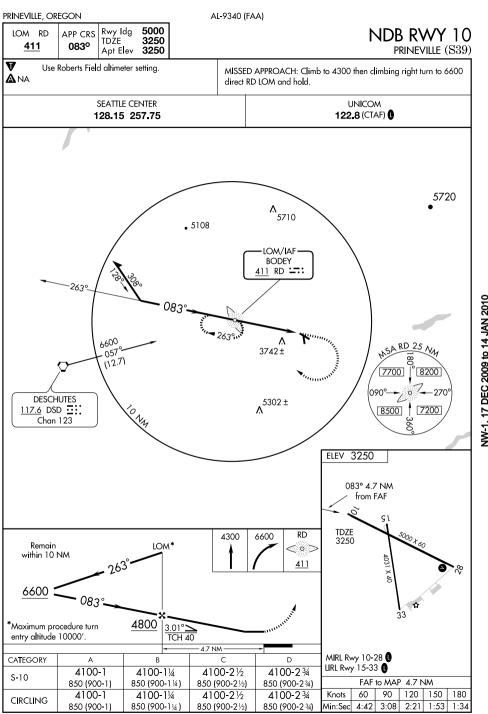


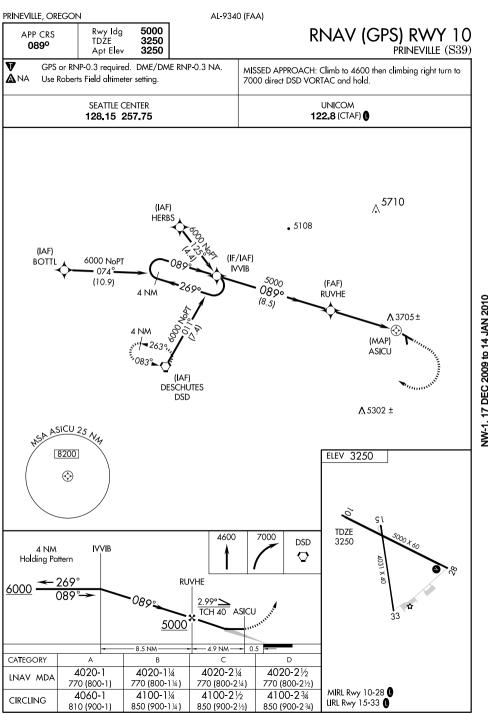
(HELNS.HELNS4) 03135 HELNS FOUR ARRIVAL PORTLAND, OREGON ST-330 (FAA) PORTLAND APP CON 124.35 299.2 PORTLAND INTL ATIS 128.35 269.9 SEATTLE PORTLAND-HILLSBORO ATIS 116.8 SEA :-127.65 Chan 115 N47°26.12′-W122°18.58′ L-1, H-1 10000 19700 161° (71) **HELNS** N46°15.42′ W122°18.58′ **KRATR BATTLE GROUND** N46° 05.39′ - W122° 24.17′ 11<u>6.6</u> BTG **Ξ**∵: NOTE: Maintain the last assigned altitude. Upon Chan 113 receipt of "Descend via the HELNS4": . . . N45°44.87′-W122°35.49 PROP/TURBOPROP: Cross at and maintain 10,000'. TURBOJET: Cross at and maintain 12,000' at 300 K IAS or less. 280° 1100. **PORTLAND** INTL 6 PORTLAND-PORTLAND-TROUTDALE HILLSBORO C **AURORA** STATE NOTE: DME and RADAR required. NOTE: Chart not to scale. SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence.... .... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence.... LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course. LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

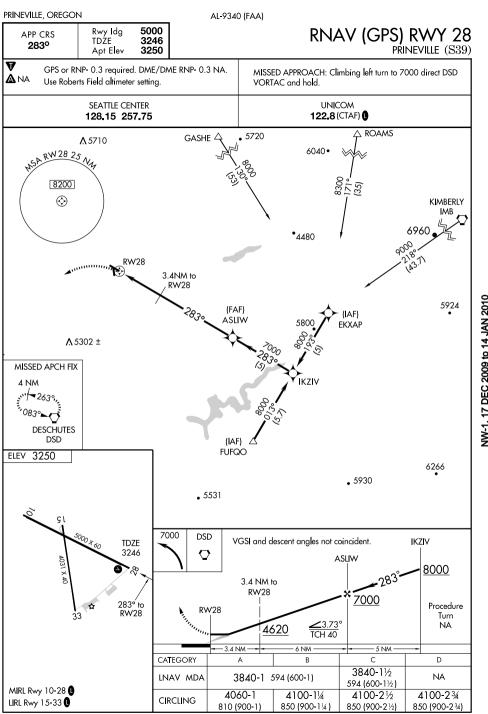
NW-1 17 DEC 2009 to 14 JAN 2010

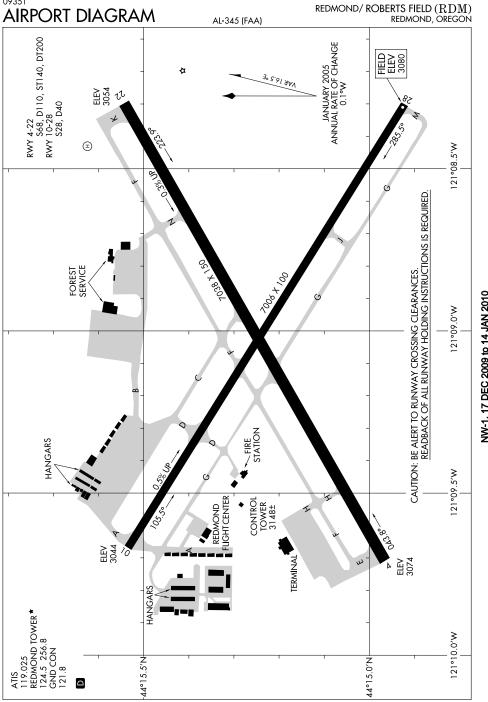


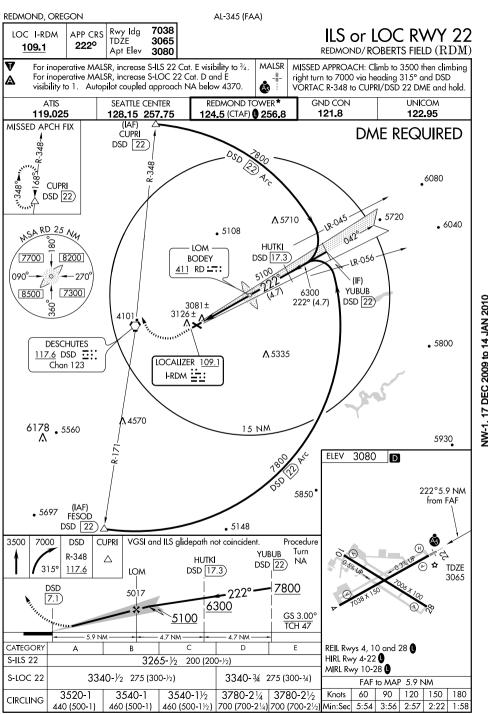












09183 SL-345 (FAA) REDMOND/ROBERTS FIELD (RDM)

REDMOND ONE DEPARTURE

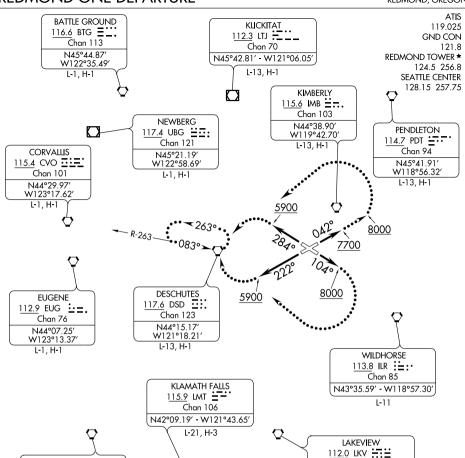
REDMOND, OREGON

NW-1, 17 DEC 2009 to 14 JAN 2010

Chan 57

N42°29.57′ - W120°30.43′

L-11, H-3



TAKE-OFF OBSTACLE

### Rwy 28: Numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

ROGUE VALLEY

113.6 OED ...

Chan 83

N42°28.77' - W122°54.78' L-21, H-3

TAKE-OFF MINIMUMS

Standard with minimum obstacle climb of 371' per NM to 13000, ATC climb of Rwy 4: 465' per NM to 7700.

Rwy 10: Standard with minimum climb of 406' per NM to 13000. Rwy 22: Standard with minimum obstacle climb of 356' per NM to 13000, ATC climb of

406' per NM to 5900.

Rwy 28: Standard with minimum climb of 358' per NM to 13000. NOTE: RADAR required. (NARRATIVE ON THE FOLLOWING PAGE) NOTE: Chart not to scale.

## REDMOND ONE DEPARTURE

REDMOND, OREGON

V

radar vectors to assigned route/fix, Thence. . . .

# DEPARTURE ROUTE DESCRIPTION

radar vectors to assigned route/fix, Thence. . . . TAKE-OFF RUNWAY 10: Climb heading 104° or ATC assigned heading to 8000 for radar vectors to assigned route/fix, Thence. . . . TAKE-OFF RUNWAY 22: Climb heading 222° or ATC assigned heading to 5900 for

TAKE-OFF RUNWAY 4: Climb heading 042° or ATC assigned heading to 7700 for

radar vectors to assigned route/fix, Thence. . . . TAKE-OFF RUNWAY 28: Climb heading 284° or ATC assigned heading to 5900 for

. . . Maintain 14000 or assigned altitude, expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If no contact with Seattle Center after reaching 6000, continue climb to assigned altitude and:

TAKE-OFF RUNWAY 4: Continue climb to 8000, then climbing left turn direct

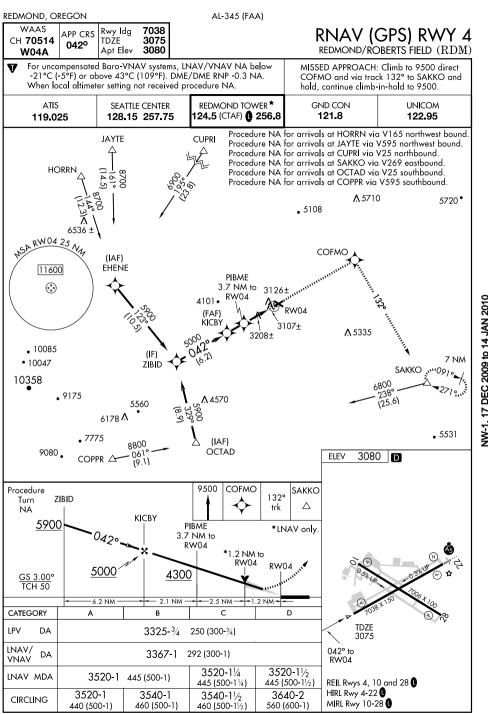
DSD VORTAC. . . . TAKE-OFF RUNWAY 10: Climbing right turn direct DSD VORTAC. . . .

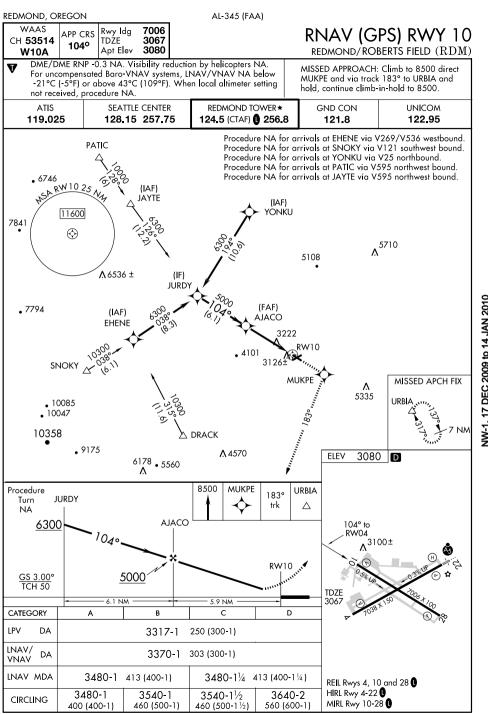
TAKE-OFF RUNWAY 22: Climbing right turn direct DSD VORTAC. . . .

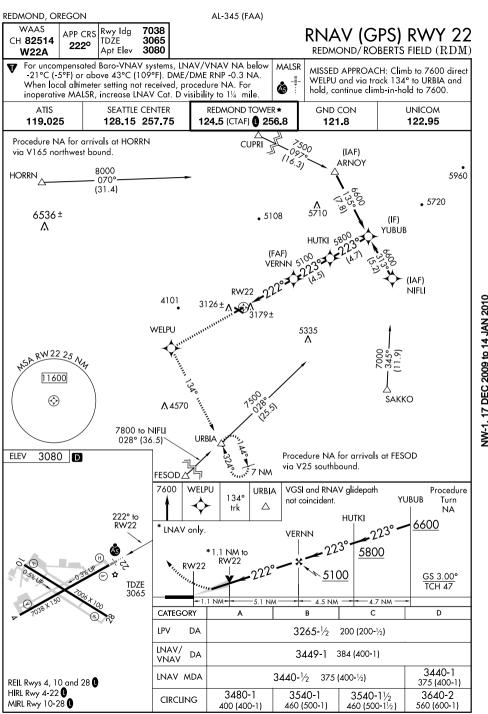
TAKE-OFF RUNWAY 28: Climbing left turn direct DSD VORTAC. . . .

. . . . Climb-in-hold at DSD VORTAC (hold W, LT, 083° inbound) to cross DSD VORTAC

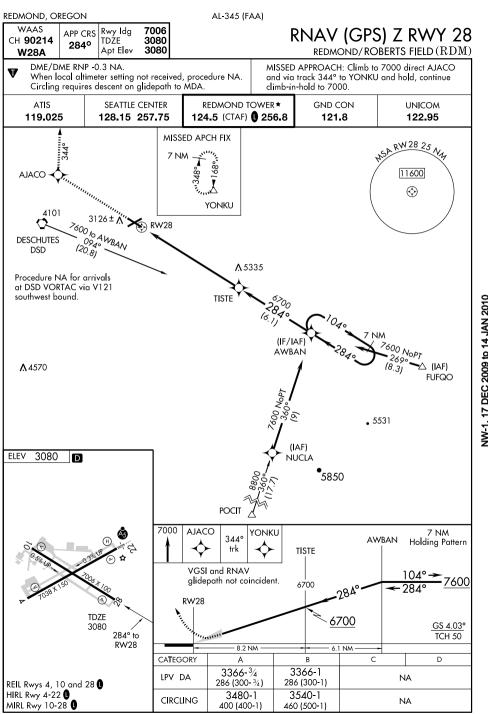
at or above the MEA before proceeding on course.

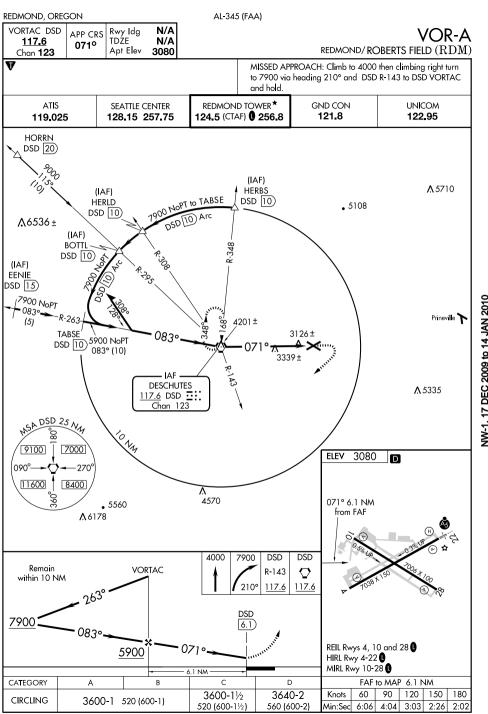


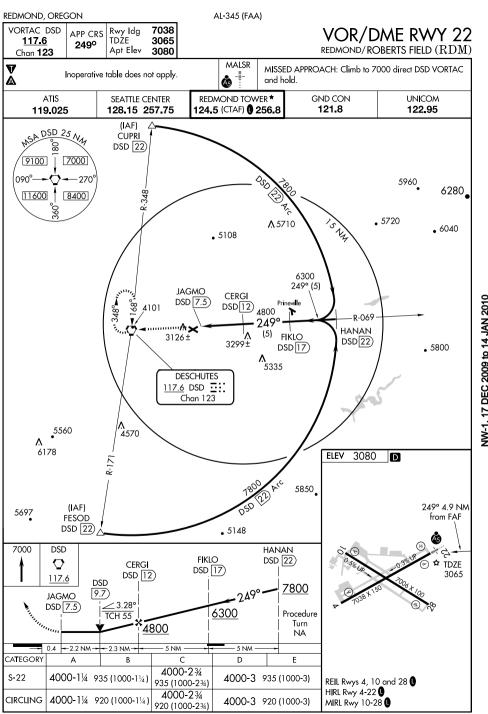


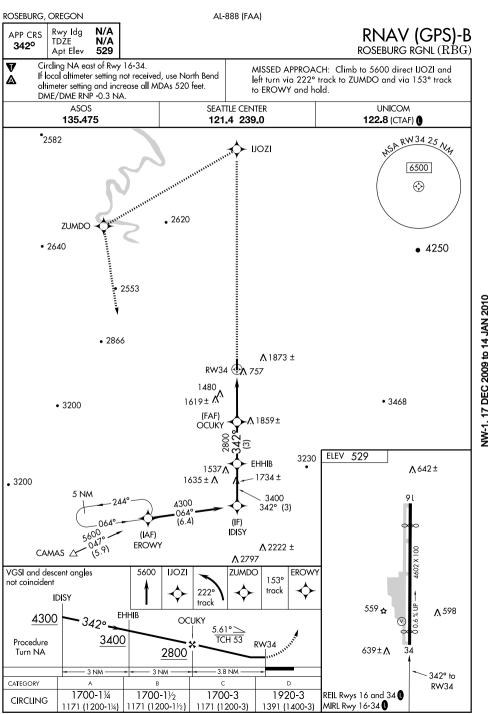


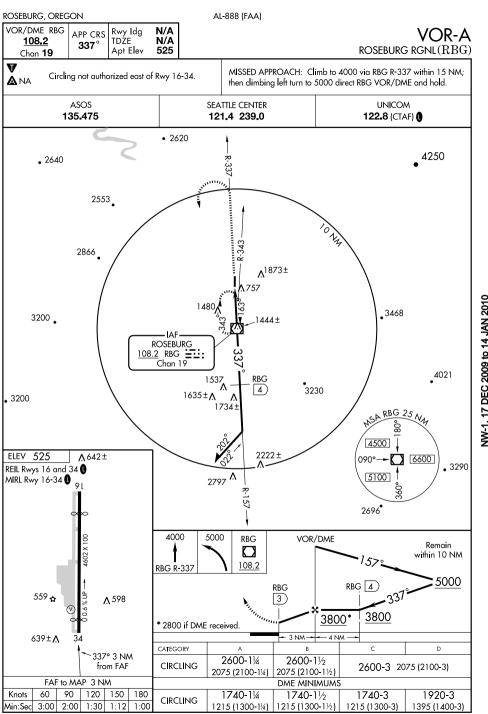
REDMOND, OREGON AL-345 (FAA) 7006 Rwy Ida RNAV (GPS) Y RWY 28 APP CRS TDŹE 3080 2840 Apt Elev REDMOND/ROBERTS FIELD (RDM) 3080 MISSED APPROACH: Climb to 7000 direct AIACO V DME/DME RNP -0.3 NA. and via track 344° to YONKU and hold, continue When local altimeter setting not received, procedure NA. climb-in-hold to 7000. REDMOND TOWER★ GND CON ATIS SEATTLE CENTER UNICOM 124.5 (CTAF) 0 256.8 119.025 121.8 122.95 128.15 257.75 MISSED APCH FIX NSA RW 28 25 Ny 7 NM 11600 **(** YONKU to AWBAN DESCHUTES 3359± DSD 4636± ^ ∧ 5335 WAGMA Procedure NA for arrivals 4.2 NM to at DSD VORTAC via V121 RW28 **HAPET** southwest bound. VW-1 17 DEC 2009 to 14 .IAN 2010 6.7 NM to (FAF) RW28 TISTÉ (IF/IAF) 7600 NOPT AWBAN **∧** 4570 △ (IAF) **FUFQO** 5531 (IAF) 3080 **ELEV**  $\mathsf{D}$ NUCLA 5850 POCIT 7000 AJACO YONKU trk 7 NM AWBAN TISTE 344° HAPET Holding Pattern 6.7 NM to RW28 WAGMA ≤3.64° 4.2 NM to 1.4 NM TCH 50 to RW28 **RW28** 6300 **RW28** -284 5720 TD7F 3080 4740 VGSI and descent 284° to angles not coincident. RW28 1.4 NM - 2.8 NM--2.5 NM <del>--</del> -1.5 NM--6.1 NM-CATEGORY D Α 3560-11/4 LNAV MDA 3560-1480 (500-1) NA 480 (500-11/4) REIL Rwys 4, 10 and 28 🕕 HIRL Rwy 4-22 0 3560-11/2 CIRCLING 3560-1 480 (500-1) NA MIRL Rwy 10-28 0 480 (500-11/2)

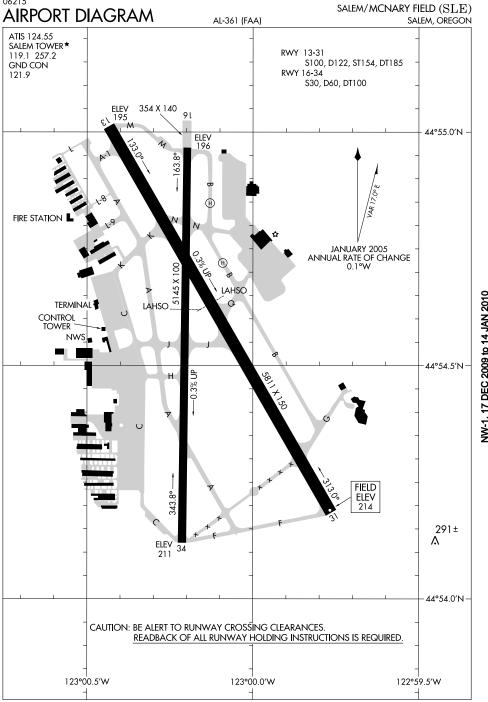




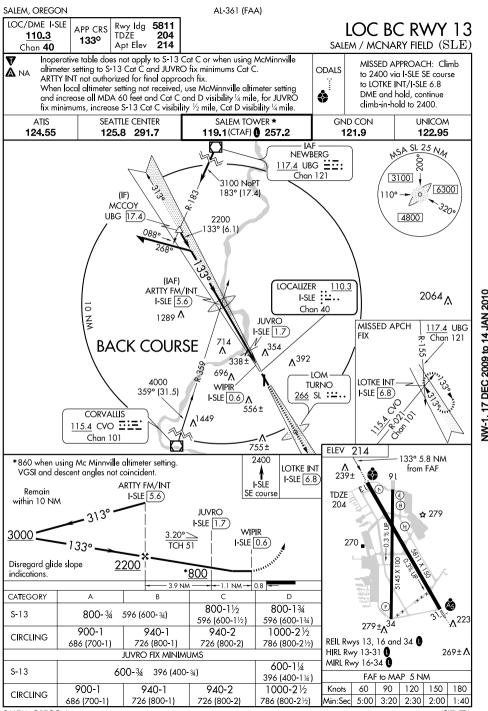






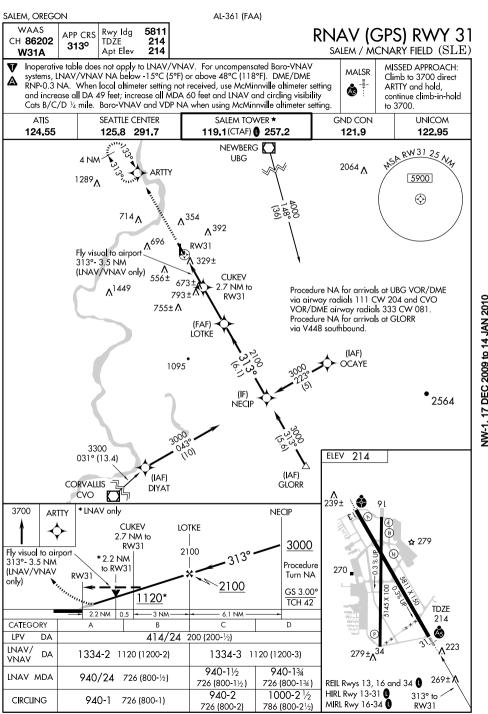


SALEM, OREGON AL-361 (FAA) LOC/DME I-SLE Rwy Ida ILS or LOC RWY 31 5811 APP CRS 110.3 TDŹE 214 313° SALEM / MCNARY FIELD (SLE) Apt Elev 214 Chan 40 \*RVR 1800 authorized with the use of FD or AP or HUD to DA MISSED APPROACH: Climb to 4000 MALSR When local altimeter setting not received, use Mc Minnville A via I-SLE NW course to ARTTY altimeter setting and increase DA 49 feet, and all MDA 60 feet; FM/INT/I-SLE 5.6 DME and hold. increase circling Cat D visibility to 2 3/4 miles. continue climb-in-hold to 4000 VDP NA when using Mc Minnville altimeter setting SALEM TOWER \* ATIS SEATTLE CENTER GND CON UNICOM 125.8 291.7 124.55 119.1 (CTAF) 0 257.2 121.9 122.95 ALTERNATE MISSED NEWBERG 3300 APCH FIX 117.4 UBG **∺** .: to LOTKE TURNO **∧** 2064 sı :::.. 33° (12.4) 1289<sub>^</sub> 266 3800 155° (32) ARTTY FM/INT I-SLE (5.6) 714 **∧** 354 392 ∧ Procedure NA for arrivals at JAIME LOCALIZER 110.3 via V536 eastbound. Λ 696 I-SLE ∷∴.. Procedure NA for arrivals at GLORR Chan 40 556±∧ via V448 southbound. IOM: TURNO 266 SL :**∷.** 755±∧ NW-1, 17 DEC 2009 to 14, IAN 2010 NSA SL 25 NA (IAF) LOTKE INT I-SLE (6.8) , p. 02 3100 1095 CORVALLIS 110°-6300 115.4 CVO ...= 2100 SCIOS Chan 101 4800 2564 313° (4.4) I-SLE [11.3) žo (J). 700) 3500 NoPT 313° (7.3) 2096 (IF/IAF) **GLORR** ELEV 5600 NoPT 214 MIRL Rwy 16-34 1 I-SLE 18.5) 313° (16.1) REIL Rwys 13, 16 and 34 🐧 R-049 **^** 239± HIRL Rwy 13-31 0  $C_{10}$ (IAF) **JAIME** Chan I-SLE 34.6 4000 ARTTY LOTKE INT One Minute FM/INT I-SLE (6.8) Holding Pattern I-SLE 5.6 270 I-SLE NW course 2100 I-SLE 3.3 I-SLE  $\Pi \Pi$ TD7F 214 2100 GS 3.00° TCH 42 **^**223 2.2 NM 3.5 NM 279±134 CATEGORY Α D 313° 5.7 NM S-ILS 31 \*414/24 200 (200-1/2) 269±) from FAF 960/24 960/40 960-13/4 960-2 S-LOC 31 FAF to MAP 5.7 NM 746 (800-1/2) 746 (800-34) 746 (800-134) 746 (800-2) 960-1 1000-21/2 Knots 60 90 120 150 180 960-11/4 960-21/2 CIRCLING 3:48 746 (800-1) 746 (800-11/4) 746 (800-21/4) 786 (800-21/2) Min:Sec 5:42 2:51 2:17 1:54



SALEM, OREGON AL-361 (FAA) LOC/DME I-SLE 5811 Rwy Idg LOC/DME RWY 31 APP CRS 110.3 TDŹE 214 313° SALEM / MCNARY FIELD (SLE) Apt Elev 214 Chan **40** MALSR V MISSED APPROACH: Climb to 4000 via I-SLE LOC northwest course to ARTTY FM/Int/I-SLE 5.6 DME Δ and hold, continue climb-in-hold to 4000. SALEM TOWER ★ GND CON ATIS SEATTLE CENTER UNICOM 119.1(CTAF) 0 257.2 122.95 124.55 125.8 291.7 121.9 NEWBERG ALTERNATE MISSED BATTLEGROUND 117.4 UBG APCH FIX 116.6 BTG Chan 121 LOM/INT Chan 113 TURNO ARTTY 🚣 ELAOUTE FOLIMES SL: BTG INT/FM I-SLE 5 44 1-SLE [5.6] EUG Ettoes to Chilles R-355 3,00 3200 133° (10.6) Procedure NA for arrivals at JAIME via V536 eastbound and arrivals at GLORR via V448 southbound. 714 ۸<sup>354</sup> LOCALIZER 110.3 ۸ I-SLE <u>::</u>.. NSA SL 25 NA ۸<sup>696</sup> 392 Chan 40 <sup>556±</sup>∧ 3100 I-SLF 6300 110° 3.1 1449^ 673± 4800 755±∧ LOM/IAF TURNO 1700 266 SL :≌. 313° (6.3) TURNO INT 1095 CORVALLIS I-SLE 5 SCIOS 115.4 CVO .:=:= I-SLE 11.3 Chan 101 R-031 3500 3000 214 **ELEV** 313° (7.3) (IF/IAF) Λ 239± **GLORR** R-049 = R.010I-SLE 18.5 FUGENE 5600 NoPT 112.9 EUG (IAF) ☆ 279 313° (16.1) Chan 76 **JAIME** I-SLE 34.6 270 4000 TURNO LOM/INT ARTTY INT Remain I-SLE 5 within 10 NM I-SLE 5.6 I-SIF LOC I-SLE TDZE I-SLE 3.1 214 I-SLE 2600 3.50° 1.1 TCH 55 ۸<sup>223</sup> 1700 279± $\Lambda^{34}$ 960 1.4 NM 0.6 - 1.9 NM -313° 3.9 NM from FAF CATEGORY C D 269±X Α 780/50 780/60 S-31 780/24 566 (600-1/2) REIL Rwys 13, 16 and 34 0 566 (600-1) 566 (600-11/4) HIRL Rwy 13-31 900-1 940-1 940-2 1000-21/2 CIRCLING MIRL Rwy 16-34 0 <u>726</u> (800-2) 786 (800-2½) 686 (700-1) 726 (800-1)

NW-1, 17 DEC 2009 to 14, IAN 2010

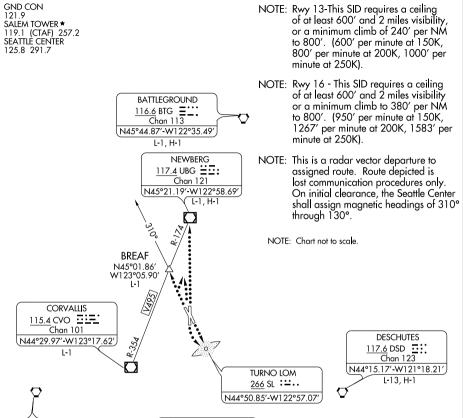


(SLE2.SLE) 09351 SALEM / MCNARY FIELD (SLE) SALEM TWO DEPARTURE SL-361 (FAA)

SALEM, OREGON

NW-1, 17 DEC 2009 to 14 JAN 2010





**NEWPORT** 

Chan 118 N44°34.52′-W124°03.64′

L-1, H-1

117.1 ONP =

## DEPARTURE ROUTE DESCRIPTION

Climb via specified turn and heading, contact Seattle Center for vectors to assigned route.

LOST COMMUNICATIONS: If not in contact with Seattle Center after reaching 2000', continue climb to assigned altitude.

**EUGENE** 

112.9 EUG :=.

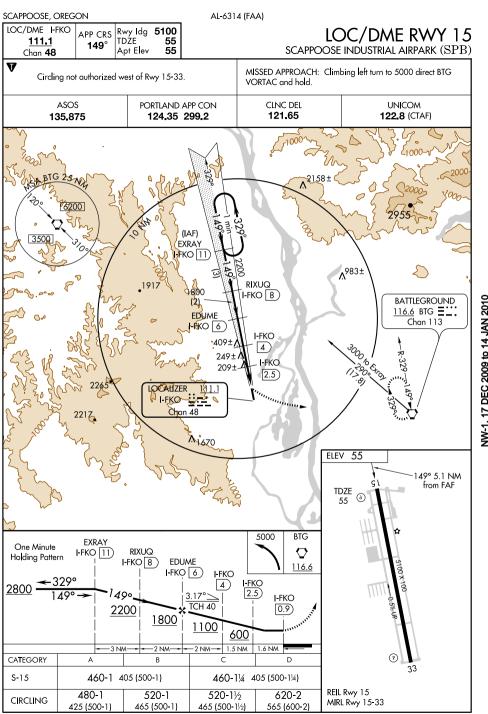
N44°07.25′-W123°13.37′ L-1, H-1

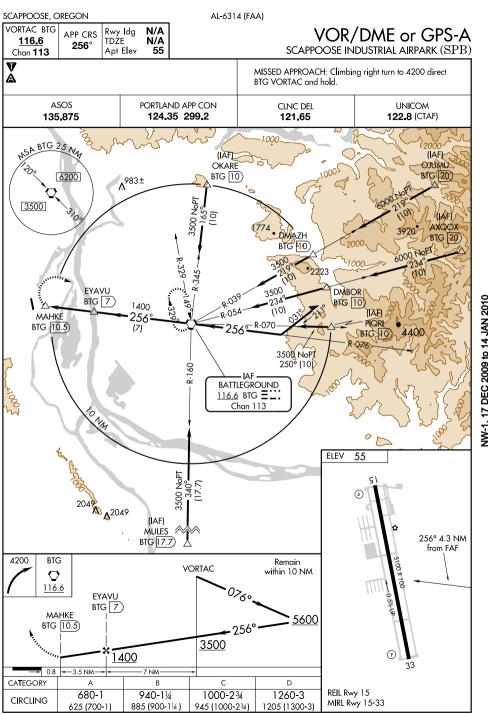
Chan 76

Take-off runways 13 and 16: (Rwy 16 turn left) proceed direct to SL LOM thence via (assigned route).

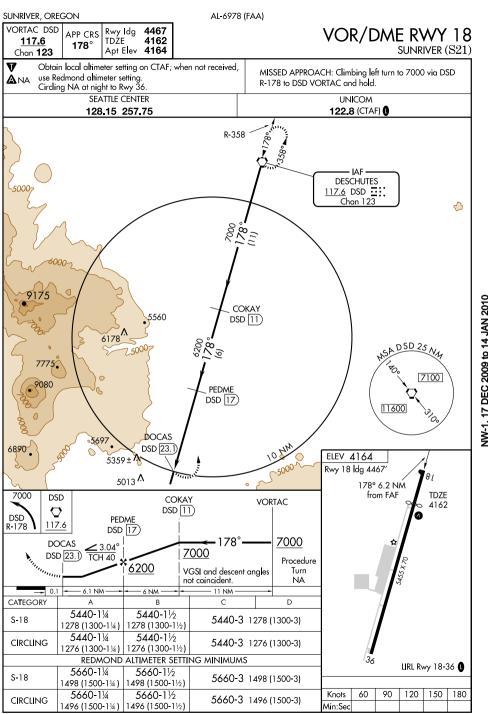
Take-off runways 31 and 34: (Rwy 31 right turn) proceed direct to UBG VOR/DME thence via (assigned route).

Helicopter only-runways 31 and 34: (Rwy 34 turn left) intercept and proceed outbound on the SL LOM 310° bearing to BREAF INT, thence via (assigned route).





SUNRIVER, OREGON AL-6978 (FAA) Rwy Ida 4467 RNAV (GPS) RWY 18 APP CRS TDŹE 4162 178° SUNRIVER (S21) Apt Elev 4164 GPS or RNP- 0.3 required, DME/DME RNP- 0.3 NA. V MISSED APPROACH: Climbing left turn to 7000 direct Circling not authorized at night to Rwy 36. Obtain local altimeter setting on CTAF; when not received, use DSD VORTAC and hold. Redmond altimeter setting. SEATTLE CENTER UNICOM 128.15 257.75 122.8 (CTAF) ( 15A RW 18 25 Ny (IAF) 7 NM DESCHUTES DSD 11600 **(** 0 7000 065° (3.4) (IAF) TUPSE DRACK 9175 NW-1, 17 DEC 2009 to 14, IAN 2010 5560 6178 7000 342° (7) **URBIA** OCTAD **9080** (FAF) HESKI GAPEY 3 NM to 1500 ± RW18 5697 6890 ELEV 4164 RW18 Rwy 18 ldg 4467' 5013 Λ 178° to 7000 VGSI and descent angles not coincident. **RW18** 6 NM DSD \* VDP NA when using Redmond altimeter setting Holding Pattern TDZE  $\bigcirc$ TUPSE 4162 **GAPEY** 3 NM to RW18 \*1.8 NM to **∠** 3.05° RW18 TCH 40 RW18 6000 #5400 when using 5180\* Redmond altimeter setting 1.8 NM 1.2 NM --2.6 NM-9 4 NM -CATEGORY D 4760-1½ 4960-21/2 LNAV MDA 4760-1 598 (600-1) 798 (800-21/2) 598 (600-11/2) 4920-1 4920-11/4 5040-21/2 5380-3 CIRCLING 756 (800-1) 756 (800-11/4) 876 (900-21/2) 1216 (1300-3) REDMOND ALTIMETER SETTING MINIMUMS 4980-1 4980-11/4 4980-21/2 4980-234 LNAV MDA 818 (900-1) 818 (900-11/4) 818 (900-21/2) 818 (900-234) 5140-11/4 5140-11/2 5260-3 5580-3 CIRCLING LIRL Rwy 18-36 ( 976 (1000-11/4) 976 (1000-11/2) 1366 (1400-3) 1096 (1100-3)



THE DALLES, OREGON AL-530 (FAA) LOC/DME I-DLS APP CRS 4451 Rwy Ida LDA/DME RWY 25 THE DALLES/ 109.35 TDŹE 243 234° COLUMBIA GORGE RGNL/THE DALLES MUNI(DLS) Apt Elev 247 Chan 30(Y) Circling requires descent on GS to MDA MISSED APPROACH: Climb to 1600 then climbing left turn Glide slope provided by standard glide slope equipment. to 7000 via heading 135° and LTJ VOR/DME R-165 to JIREN/LTJ 15 DME and hold, continue climb-in-hold to 7000. Visibility reduction by helicopters NA. If local altimeter setting not received, procedure NA. **ASOS** SEATTLE CENTER **UNICOM** 135,175 119.65 257.6 123.0 (CTAF) 1 GLIDE SLOPE 229 KLICKITAT 112.3 Chan 70 3129 NoPT for arrival at VECCU 3220 on V112 westbound. 1000 054° 23**4°** • R-080 2510± 234-2969 (IF/IAE) (4.7) VECÉVÎ I-DLS 13 NW-1, 17 DEC 2009 to 14, IAN 2010 450+ LTO TO 1-DLS 8.3 1070 7X<sub>356</sub> 1000 ۸<sup>709</sup> 830 A LOCALIZER 1093 I-DLS 줄 Chan 30 (Y) 4OC offset 15° 10 NM JIREN LTJ [15] Rwy 7 ldg 4207' **ELEV** 247 7100 Rwy 12 ldg 4897' 13600 Rwy 25 ldg 4451' 08.59 12600 4600 TDZE 243 ^2613± 4647 X 100 1600 7000 Use I-DLS DME when on the localizer course. LTJ **JIREN** R-165 **VECCU** One Minute Δ 112.3 I-DLS [13] Holding Pattern 135° ☆ 2349 LIREY 5300 I-DLS (8.3) GS 4.20° 4000 TCH 43 4.7 NM -8.2 NM -REIL Rwy 30 0 D CATEGORY Α В C MIRL Rwys 7-25 and 12-30 1368-23/4 S-LDA/GS 25 1125 (1200-23/4) NA Knots 90 120 150 180 CIRCLING 1380 - 31133 (1200-3) NA Min:Sec

